Spring Boot Actuator Web API Documentation

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This API documentation describes Spring Boot Actuators web endpoints.

Chapter 1. Overview

Before you proceed, you should read the following topics:

- URLs

- Timestamps

> ℹ️ In order to get the correct JSON responses documented below, Jackson must be
> available.

1.1. URLs

By default, all web endpoints are available beneath the path `/actuator` with URLs of the form
`/actuator/{id}`. The `/actuator` base path can be configured by using the
`management.endpoints.web.base-path` property, as shown in the following example:

```
management.endpoints.web.base-path=/manage
```

The preceding `application.properties` example changes the form of the endpoint URLs from
`/actuator/{id}` to `/manage/{id}`. For example, the URL `info` endpoint would become `/manage/info`.

1.2. Timestamps

All timestamps that are consumed by the endpoints, either as query parameters or in the request
body, must be formatted as an offset date and time as specified in ISO 8601.

Chapter 2. Audit Events (`auditevents`)

The `auditevents` endpoint provides information about the application's audit events.

2.1. Retrieving Audit Events

To retrieve the audit events, make a `GET` request to `/actuator/auditevents`, as shown in the following curl-based example:

```
$ curl 'http://localhost:8080/actuator/auditevents?principal=alice&after=2020-06-
11T22%3A54%3A14.704Z&type=logout' -i -X GET
```

The preceding example retrieves `logout` events for the principal, `alice`, that occurred after 09:37 on 7 November 2017 in the UTC timezone. The resulting response is similar to the following:

```
HTTP/1.1 200 OK
Content-Type: application/vnd.spring-boot.actuator.v3+json
Content-Length: 121

{
  "events" : [ {
    "timestamp" : "2020-06-11T22:54:14.704Z",
    "principal" : "alice",
    "type" : "logout"
  } ]
}
```

2.1.1. Query Parameters

The endpoint uses query parameters to limit the events that it returns. The following table shows the supported query parameters:

Parameter	Description
after	Restricts the events to those that occurred after the given time. Optional.
principal	Restricts the events to those with the given principal. Optional.
type	Restricts the events to those with the given type. Optional.

2.1.2. Response Structure

The response contains details of all of the audit events that matched the query. The following table describes the structure of the response:

Path	Type	Description
events	Array	An array of audit events.
events.[].timestamp	String	The timestamp of when the event occurred.
events.[].principal	String	The principal that triggered the event.
events.[].type	String	The type of the event.

Path	Type	Description
events	Array	
events.[].timestamp	String	
events.[].principal	String	
events.[].type	String	

Chapter 3. Beans (beans)

The beans endpoint provides information about the application's beans.

3.1. Retrieving the Beans

To retrieve the beans, make a GET request to /actuator/beans, as shown in the following curl-based example:

```
$ curl 'http://localhost:8080/actuator/beans' -i -X GET
```

The resulting response is similar to the following:

```
HTTP/1.1 200 OK
Content-Type: application/vnd.spring-boot.actuator.v3+json
Content-Length: 1062

{
  "contexts" : {
    "application" : {
      "beans" : {
        "defaultServletHandlerMapping" : {
          "aliases" : [ ],
          "scope" : "singleton",
          "type" : "org.springframework.web.servlet.HandlerMapping",
          "resource" : "class path resource
[org/springframework/boot/autoconfigure/web/servlet/WebMvcAutoConfiguration$EnableWebM
vcConfiguration.class]",
          "dependencies" : [ ]
        },

"org.springframework.boot.autoconfigure.context.PropertyPlaceholderAutoConfiguration"
: {
          "aliases" : [ ],
          "scope" : "singleton",
          "type" :
"org.springframework.boot.autoconfigure.context.PropertyPlaceholderAutoConfiguration",
          "dependencies" : [ ]
        },

"org.springframework.boot.autoconfigure.web.servlet.DispatcherServletAutoConfiguration
" : {
          "aliases" : [ ],
          "scope" : "singleton",
          "type" :
"org.springframework.boot.autoconfigure.web.servlet.DispatcherServletAutoConfiguration
",
          "dependencies" : [ ]
        }
      }
    }
  }
}
```

3.1.1. Response Structure

The response contains details of the application's beans. The following table describes the structure of the response:

Path	Type	Description
contexts	Object	Application contexts keyed by id.

Path	Type	Description
`contexts.*.parentId`	`String`	Id of the parent application context, if any.
`contexts.*.beans`	`Object`	Beans in the application context keyed by name.
`contexts.*.beans.*.aliases`	`Array`	Names of any aliases.
`contexts.*.beans.*.scope`	`String`	Scope of the bean.
`contexts.*.beans.*.type`	`String`	Fully qualified type of the bean.
`contexts.*.beans.*.resource`	`String`	Resource in which the bean was defined, if any.
`contexts.*.beans.*.dependencies`	`Array`	Names of any dependencies.

Chapter 4. Caches (`caches`)

The `caches` endpoint provides access to the application's caches.

4.1. Retrieving All Caches

To retrieve the application's caches, make a `GET` request to `/actuator/caches`, as shown in the following curl-based example:

```
$ curl 'http://localhost:8080/actuator/caches' -i -X GET
```

The resulting response is similar to the following:

```
HTTP/1.1 200 OK
Content-Type: application/vnd.spring-boot.actuator.v3+json
Content-Length: 435

{
  "cacheManagers" : {
    "anotherCacheManager" : {
      "caches" : {
        "countries" : {
          "target" : "java.util.concurrent.ConcurrentHashMap"
        }
      }
    },
    "cacheManager" : {
      "caches" : {
        "cities" : {
          "target" : "java.util.concurrent.ConcurrentHashMap"
        },
        "countries" : {
          "target" : "java.util.concurrent.ConcurrentHashMap"
        }
      }
    }
  }
}
```

4.1.1. Response Structure

The response contains details of the application's caches. The following table describes the structure of the response:

Path	Type	Description
`cacheManagers`	`Object`	Cache managers keyed by id.

Path	Type	Description
`cacheManagers.*.caches`	`Object`	Caches in the application context keyed by name.
`cacheManagers.*.caches.*.target`	`String`	Fully qualified name of the native cache.

4.2. Retrieving Caches by Name

To retrieve a cache by name, make a `GET` request to `/actuator/caches/{name}`, as shown in the following curl-based example:

```
$ curl 'http://localhost:8080/actuator/caches/cities' -i -X GET
```

The preceding example retrieves information about the cache named `cities`. The resulting response is similar to the following:

```
HTTP/1.1 200 OK
Content-Type: application/vnd.spring-boot.actuator.v3+json
Content-Length: 113

{
  "target" : "java.util.concurrent.ConcurrentHashMap",
  "name" : "cities",
  "cacheManager" : "cacheManager"
}
```

4.2.1. Query Parameters

If the requested name is specific enough to identify a single cache, no extra parameter is required. Otherwise, the `cacheManager` must be specified. The following table shows the supported query parameters:

Parameter	Description
`cacheManager`	Name of the cacheManager to qualify the cache. May be omitted if the cache name is unique.

4.2.2. Response Structure

The response contains details of the requested cache. The following table describes the structure of the response:

Path	Type	Description
`name`	`String`	Cache name.
`cacheManager`	`String`	Cache manager name.

Path	Type	Description
target	String	Fully qualified name of the native cache.

4.3. Evict All Caches

To clear all available caches, make a DELETE request to /actuator/caches as shown in the following curl-based example:

```
$ curl 'http://localhost:8080/actuator/caches' -i -X DELETE
```

4.4. Evict a Cache by Name

To evict a particular cache, make a DELETE request to /actuator/caches/{name} as shown in the following curl-based example:

```
$ curl
'http://localhost:8080/actuator/caches/countries?cacheManager=anotherCacheManager' -i
-X DELETE
```

> As there are two caches named countries, the cacheManager has to be provided to specify which Cache should be cleared.

4.4.1. Request Structure

If the requested name is specific enough to identify a single cache, no extra parameter is required. Otherwise, the cacheManager must be specified. The following table shows the supported query parameters:

Parameter	Description
cacheManager	Name of the cacheManager to qualify the cache. May be omitted if the cache name is unique.

Chapter 5. Conditions Evaluation Report (`conditions`)

The `conditions` endpoint provides information about the evaluation of conditions on configuration and auto-configuration classes.

5.1. Retrieving the Report

To retrieve the report, make a `GET` request to `/actuator/conditions`, as shown in the following curl-based example:

```
$ curl 'http://localhost:8080/actuator/conditions' -i -X GET
```

The resulting response is similar to the following:

```
HTTP/1.1 200 OK
Content-Type: application/vnd.spring-boot.actuator.v3+json
Content-Length: 3255

{
  "contexts" : {
    "application" : {
      "positiveMatches" : {
        "EndpointAutoConfiguration#endpointOperationParameterMapper" : [ {
          "condition" : "OnBeanCondition",
          "message" : "@ConditionalOnMissingBean (types:
org.springframework.boot.actuate.endpoint.invoke.ParameterValueMapper; SearchStrategy:
all) did not find any beans"
        } ],
        "EndpointAutoConfiguration#endpointCachingOperationInvokerAdvisor" : [ {
          "condition" : "OnBeanCondition",
          "message" : "@ConditionalOnMissingBean (types:
org.springframework.boot.actuate.endpoint.invoker.cache.CachingOperationInvokerAdvisor
; SearchStrategy: all) did not find any beans"
        } ],
        "WebEndpointAutoConfiguration" : [ {
          "condition" : "OnWebApplicationCondition",
          "message" : "@ConditionalOnWebApplication (required) found 'session' scope"
        } ]
      },
      "negativeMatches" : {
        "WebFluxEndpointManagementContextConfiguration" : {
          "notMatched" : [ {
            "condition" : "OnWebApplicationCondition",
            "message" : "not a reactive web application"
          } ],
          "matched" : [ {
```

```
                "condition" : "OnClassCondition",
                "message" : "@ConditionalOnClass found required classes
'org.springframework.web.reactive.DispatcherHandler',
'org.springframework.http.server.reactive.HttpHandler'"
            } ]
        },
        "GsonHttpMessageConvertersConfiguration.GsonHttpMessageConverterConfiguration"
: {
            "notMatched" : [ {
                "condition" :
"GsonHttpMessageConvertersConfiguration.PreferGsonOrJacksonAndJsonbUnavailableConditio
n",
                "message" : "AnyNestedCondition 0 matched 2 did not; NestedCondition on
GsonHttpMessageConvertersConfiguration.PreferGsonOrJacksonAndJsonbUnavailableCondition
.JacksonJsonbUnavailable NoneNestedConditions 1 matched 1 did not; NestedCondition on
GsonHttpMessageConvertersConfiguration.JacksonAndJsonbUnavailableCondition.JsonbPrefer
red @ConditionalOnProperty (spring.mvc.converters.preferred-json-mapper=jsonb) did not
find property 'spring.mvc.converters.preferred-json-mapper'; NestedCondition on
GsonHttpMessageConvertersConfiguration.JacksonAndJsonbUnavailableCondition.JacksonAvai
lable @ConditionalOnBean (types:
org.springframework.http.converter.json.MappingJackson2HttpMessageConverter;
SearchStrategy: all) found bean 'mappingJackson2HttpMessageConverter'; NestedCondition
on
GsonHttpMessageConvertersConfiguration.PreferGsonOrJacksonAndJsonbUnavailableCondition
.GsonPreferred @ConditionalOnProperty (spring.mvc.converters.preferred-json-
mapper=gson) did not find property 'spring.mvc.converters.preferred-json-mapper'"
            } ],
            "matched" : [ ]
        },
        "JsonbHttpMessageConvertersConfiguration" : {
            "notMatched" : [ {
                "condition" : "OnClassCondition",
                "message" : "@ConditionalOnClass did not find required class
'javax.json.bind.Jsonb'"
            } ],
            "matched" : [ ]
        }
    },
    "unconditionalClasses" : [
"org.springframework.boot.autoconfigure.context.PropertyPlaceholderAutoConfiguration",
"org.springframework.boot.actuate.autoconfigure.endpoint.EndpointAutoConfiguration" ]
    }
  }
}
```

5.1.1. Response Structure

The response contains details of the application's condition evaluation. The following table describes the structure of the response:

Path	Type	Description
`contexts`	`Object`	Application contexts keyed by id.
`contexts.*.positiveMatches`	`Object`	Classes and methods with conditions that were matched.
`contexts.*.positiveMatches.*.[].condition`	`String`	Name of the condition.
`contexts.*.positiveMatches.*.[].message`	`String`	Details of why the condition was matched.
`contexts.*.negativeMatches`	`Object`	Classes and methods with conditions that were not matched.
`contexts.*.negativeMatches.*.notMatched`	`Array`	Conditions that were matched.
`contexts.*.negativeMatches.*.notMatched.[].condition`	`String`	Name of the condition.
`contexts.*.negativeMatches.*.notMatched.[].message`	`String`	Details of why the condition was not matched.
`contexts.*.negativeMatches.*.matched`	`Array`	Conditions that were matched.
`contexts.*.negativeMatches.*.matched.[].condition`	`String`	Name of the condition.
`contexts.*.negativeMatches.*.matched.[].message`	`String`	Details of why the condition was matched.
`contexts.*.unconditionalClasses`	`Array`	Names of unconditional auto-configuration classes if any.
`contexts.*.parentId`	`String`	Id of the parent application context, if any.

Chapter 6. Configuration Properties (`configprops`)

The `configprops` endpoint provides information about the application's `@ConfigurationProperties` beans.

6.1. Retrieving the @ConfigurationProperties Bean

To retrieve the `@ConfigurationProperties` beans, make a `GET` request to `/actuator/configprops`, as shown in the following curl-based example:

```
$ curl 'http://localhost:8080/actuator/configprops' -i -X GET
```

The resulting response is similar to the following:

```
HTTP/1.1 200 OK
Content-Type: application/vnd.spring-boot.actuator.v3+json
Content-Length: 2958

{
  "contexts" : {
    "application" : {
      "beans" : {
        "management.endpoints.web.cors-
org.springframework.boot.actuate.autoconfigure.endpoint.web.CorsEndpointProperties" :
{
          "prefix" : "management.endpoints.web.cors",
          "properties" : {
            "allowedHeaders" : [ ],
            "allowedMethods" : [ ],
            "allowedOrigins" : [ ],
            "maxAge" : "PT30M",
            "exposedHeaders" : [ ]
          },
          "inputs" : {
            "allowedHeaders" : [ ],
            "allowedMethods" : [ ],
            "allowedOrigins" : [ ],
            "maxAge" : { },
            "exposedHeaders" : [ ]
          }
        },
        "management.endpoints.web-
org.springframework.boot.actuate.autoconfigure.endpoint.web.WebEndpointProperties" : {
          "prefix" : "management.endpoints.web",
          "properties" : {
            "pathMapping" : { },
```

```
          "exposure" : {
            "include" : [ "*" ],
            "exclude" : [ ]
          },
          "basePath" : "/actuator"
        },
        "inputs" : {
          "pathMapping" : { },
          "exposure" : {
            "include" : [ {
              "origin" : "\"management.endpoints.web.exposure.include\" from
property source \"Inlined Test Properties\"",
              "value" : "*"
            } ],
            "exclude" : [ ]
          },
          "basePath" : { }
        }
      },
      "spring.resources-
org.springframework.boot.autoconfigure.web.ResourceProperties" : {
        "prefix" : "spring.resources",
        "properties" : {
          "addMappings" : true,
          "chain" : {
            "cache" : true,
            "htmlApplicationCache" : false,
            "compressed" : false,
            "strategy" : {
              "fixed" : {
                "enabled" : false,
                "paths" : [ "/**" ]
              },
              "content" : {
                "enabled" : false,
                "paths" : [ "/**" ]
              }
            }
          },
          "cache" : {
            "cachecontrol" : { }
          },
          "staticLocations" : [ "classpath:/META-INF/resources/",
"classpath:/resources/", "classpath:/static/", "classpath:/public/" ]
        },
        "inputs" : {
          "addMappings" : { },
          "chain" : {
            "cache" : { },
            "htmlApplicationCache" : { },
            "compressed" : { },
```

```
            "strategy" : {
              "fixed" : {
                "enabled" : { },
                "paths" : [ { } ]
              },
              "content" : {
                "enabled" : { },
                "paths" : [ { } ]
              }
            }
          },
          "cache" : {
            "cachecontrol" : { }
          },
          "staticLocations" : [ { }, { }, { }, { } ]
        }
      }
    }
  }
}
```

6.1.1. Response Structure

The response contains details of the application's `@ConfigurationProperties` beans. The following table describes the structure of the response:

Path	Type	Description
contexts	Object	Application contexts keyed by id.
contexts.*.beans.*	Object	`@ConfigurationProperties` beans keyed by bean name.
contexts.*.beans.*.prefix	String	Prefix applied to the names of the bean's properties.
contexts.*.beans.*.properties	Object	Properties of the bean as name-value pairs.
contexts.*.beans.*.inputs	Object	Origin and value of the configuration property used when binding to this bean.
contexts.*.parentId	String	Id of the parent application context, if any.

Chapter 7. Environment (env)

The env endpoint provides information about the application's Environment.

7.1. Retrieving the Entire Environment

To retrieve the entire environment, make a GET request to /actuator/env, as shown in the following curl-based example:

```
$ curl 'http://localhost:8080/actuator/env' -i -X GET
```

The resulting response is similar to the following:

```
HTTP/1.1 200 OK
Content-Type: application/vnd.spring-boot.actuator.v3+json
Content-Length: 788

{
  "activeProfiles" : [ ],
  "propertySources" : [ {
    "name" : "systemProperties",
    "properties" : {
      "java.runtime.name" : {
        "value" : "OpenJDK Runtime Environment"
      },
      "java.vm.version" : {
        "value" : "25.252-b09"
      },
      "java.vm.vendor" : {
        "value" : "AdoptOpenJDK"
      }
    }
  }, {
    "name" : "systemEnvironment",
    "properties" : {
      "JAVA_HOME" : {
        "value" : "/opt/openjdk",
        "origin" : "System Environment Property \"JAVA_HOME\""
      }
    }
  }, {
    "name" : "applicationConfig: [classpath:/application.properties]",
    "properties" : {
      "com.example.cache.max-size" : {
        "value" : "1000",
        "origin" : "class path resource [application.properties]:1:29"
      }
    }
  } ]
}
```

7.1.1. Response Structure

The response contains details of the application's `Environment`. The following table describes the structure of the response:

Path	Type	Description
activeProfiles	Array	Names of the active profiles, if any.
propertySources	Array	Property sources in order of precedence.
propertySources.[].name	String	Name of the property source.

Path	Type	Description
propertySources.[].properties	Object	Properties in the property source keyed by property name.
propertySources.[].properties.*.value	String	Value of the property.
propertySources.[].properties.*.origin	String	Origin of the property, if any.

7.2. Retrieving a Single Property

To retrieve a single property, make a `GET` request to `/actuator/env/{property.name}`, as shown in the following curl-based example:

```
$ curl 'http://localhost:8080/actuator/env/com.example.cache.max-size' -i -X GET
```

The preceding example retrieves information about the property named `com.example.cache.max-size`. The resulting response is similar to the following:

```
HTTP/1.1 200 OK
Content-Disposition: inline;filename=f.txt
Content-Type: application/vnd.spring-boot.actuator.v3+json
Content-Length: 445

{
  "property" : {
    "source" : "applicationConfig: [classpath:/application.properties]",
    "value" : "1000"
  },
  "activeProfiles" : [ ],
  "propertySources" : [ {
    "name" : "systemProperties"
  }, {
    "name" : "systemEnvironment"
  }, {
    "name" : "applicationConfig: [classpath:/application.properties]",
    "property" : {
      "value" : "1000",
      "origin" : "class path resource [application.properties]:1:29"
    }
  } ]
}
```

7.2.1. Response Structure

The response contains details of the requested property. The following table describes the structure of the response:

Path	Type	Description
`property`	`Object`	Property from the environment, if found.
`property.source`	`String`	Name of the source of the property.
`property.value`	`String`	Value of the property.
`activeProfiles`	`Array`	Names of the active profiles, if any.
`propertySources`	`Array`	Property sources in order of precedence.
`propertySources.[].name`	`String`	Name of the property source.
`propertySources.[].property`	`Object`	Property in the property source, if any.
`propertySources.[].property.value`	`Varies`	Value of the property.
`propertySources.[].property.origin`	`String`	Origin of the property, if any.

Chapter 8. Flyway (`flyway`)

The `flyway` endpoint provides information about database migrations performed by Flyway.

8.1. Retrieving the Migrations

To retrieve the migrations, make a `GET` request to `/actuator/flyway`, as shown in the following curl-based example:

```
$ curl 'http://localhost:8080/actuator/flyway' -i -X GET
```

The resulting response is similar to the following:

```
HTTP/1.1 200 OK
Content-Type: application/vnd.spring-boot.actuator.v3+json
Content-Length: 516

{
  "contexts" : {
    "application" : {
      "flywayBeans" : {
        "flyway" : {
          "migrations" : [ {
            "type" : "SQL",
            "checksum" : -156244537,
            "version" : "1",
            "description" : "init",
            "script" : "V1__init.sql",
            "state" : "SUCCESS",
            "installedBy" : "SA",
            "installedOn" : "2020-06-11T22:54:13.989Z",
            "installedRank" : 1,
            "executionTime" : 23
          } ]
        }
      }
    }
  }
}
```

8.1.1. Response Structure

The response contains details of the application's Flyway migrations. The following table describes the structure of the response:

Path	Type	Description
`contexts`	`Object`	Application contexts keyed by id
`contexts.*.flywayBeans.*.migrations`	`Array`	Migrations performed by the Flyway instance, keyed by Flyway bean name.
`contexts.*.flywayBeans.*.migrations.[].checksum`	`Number`	Checksum of the migration, if any.
`contexts.*.flywayBeans.*.migrations.[].description`	`String`	Description of the migration, if any.
`contexts.*.flywayBeans.*.migrations.[].executionTime`	`Number`	Execution time in milliseconds of an applied migration.
`contexts.*.flywayBeans.*.migrations.[].installedBy`	`String`	User that installed the applied migration, if any.
`contexts.*.flywayBeans.*.migrations.[].installedOn`	`String`	Timestamp of when the applied migration was installed, if any.
`contexts.*.flywayBeans.*.migrations.[].installedRank`	`Number`	Rank of the applied migration, if any. Later migrations have higher ranks.
`contexts.*.flywayBeans.*.migrations.[].script`	`String`	Name of the script used to execute the migration, if any.
`contexts.*.flywayBeans.*.migrations.[].state`	`String`	State of the migration. (`PENDING`, `ABOVE_TARGET`, `BELOW_BASELINE`, `BASELINE`, `IGNORED`, `MISSING_SUCCESS`, `MISSING_FAILED`, `SUCCESS`, `UNDONE`, `AVAILABLE`, `FAILED`, `OUT_OF_ORDER`, `FUTURE_SUCCESS`, `FUTURE_FAILED`, `OUTDATED`, `SUPERSEDED`)
`contexts.*.flywayBeans.*.migrations.[].type`	`String`	Type of the migration. (`SCHEMA`, `BASELINE`, `SQL`, `UNDO_SQL`, `JDBC`, `UNDO_JDBC`, `SPRING_JDBC`, `UNDO_SPRING_JDBC`, `CUSTOM`, `UNDO_CUSTOM`)
`contexts.*.flywayBeans.*.migrations.[].version`	`String`	Version of the database after applying the migration, if any.
`contexts.*.parentId`	`String`	Id of the parent application context, if any.

Chapter 9. Health (`health`)

The `health` endpoint provides detailed information about the health of the application.

9.1. Retrieving the Health of the application

To retrieve the health of the application, make a `GET` request to `/actuator/health`, as shown in the following curl-based example:

```
$ curl 'http://localhost:8080/actuator/health' -i -X GET \
    -H 'Accept: application/json'
```

The resulting response is similar to the following:

```
HTTP/1.1 200 OK
Content-Type: application/json
Content-Length: 703

{
  "status" : "UP",
  "components" : {
    "broker" : {
      "status" : "UP",
      "components" : {
        "us1" : {
          "status" : "UP",
          "details" : {
            "version" : "1.0.2"
          }
        },
        "us2" : {
          "status" : "UP",
          "details" : {
            "version" : "1.0.4"
          }
        }
      }
    },
    "db" : {
      "status" : "UP",
      "details" : {
        "database" : "H2",
        "validationQuery" : "isValid()"
      }
    },
    "diskSpace" : {
      "status" : "UP",
      "details" : {
        "total" : 194686709760,
        "free" : 84682256384,
        "threshold" : 10485760,
        "exists" : true
      }
    }
  }
}
```

9.1.1. Response Structure

The response contains details of the health of the application. The following table describes the structure of the response:

Path	Type	Description
`status`	`String`	Overall status of the application.
`components`	`Object`	The components that make up the health.
`components.*.status`	`String`	Status of a specific part of the application.
`components.*.components`	`Object`	The nested components that make up the health.
`components.*.details`	`Object`	Details of the health of a specific part of the application. Presence is controlled by `management.endpoint.health.show-details`. May contain nested components that make up the health.

> The response fields above are for the V3 API. If you need to return V2 JSON you should use an accept header or `application/vnd.spring-boot.actuator.v2+json`

9.2. Retrieving the Health of a component

To retrieve the health of a particular component of the application's health, make a `GET` request to `/actuator/health/{component}`, as shown in the following curl-based example:

```
$ curl 'http://localhost:8080/actuator/health/db' -i -X GET \
    -H 'Accept: application/json'
```

The resulting response is similar to the following:

```
HTTP/1.1 200 OK
Content-Type: application/json
Content-Length: 101

{
  "status" : "UP",
  "details" : {
    "database" : "H2",
    "validationQuery" : "isValid()"
  }
}
```

9.2.1. Response Structure

The response contains details of the health of a particular component of the application's health. The following table describes the structure of the response:

Path	Type	Description
`status`	`String`	Status of a specific part of the application

Path	Type	Description
details	Object	Details of the health of a specific part of the application.

9.3. Retrieving the Health of a nested component

If a particular component contains other nested components (as the `broker` indicator in the example above), the health of such a nested component can be retrieved by issuing a `GET` request to `/actuator/health/{component}/{subcomponent}`, as shown in the following curl-based example:

```
$ curl 'http://localhost:8080/actuator/health/broker/us1' -i -X GET \
    -H 'Accept: application/json'
```

The resulting response is similar to the following:

```
HTTP/1.1 200 OK
Content-Type: application/json
Content-Length: 66

{
  "status" : "UP",
  "details" : {
    "version" : "1.0.2"
  }
}
```

Components of an application's health may be nested arbitrarily deep depending on the application's health indicators and how they have been grouped. The health endpoint supports any number of `/{component}` identifiers in the URL to allow the health of a component at any depth to be retrieved.

9.3.1. Response Structure

The response contains details of the health of an instance of a particular component of the application. The following table describes the structure of the response:

Path	Type	Description
status	String	Status of a specific part of the application
details	Object	Details of the health of a specific part of the application.

Chapter 10. Heap Dump (heapdump)

The heapdump endpoint provides a heap dump from the application's JVM.

10.1. Retrieving the Heap Dump

To retrieve the heap dump, make a GET request to /actuator/heapdump. The response is binary data in HPROF format and can be large. Typically, you should save the response to disk for subsequent analysis. When using curl, this can be achieved by using the -O option, as shown in the following example:

```
$ curl 'http://localhost:8080/actuator/heapdump' -O
```

The preceding example results in a file named heapdump being written to the current working directory.

Chapter 11. HTTP Trace (`httptrace`)

The `httptrace` endpoint provides information about HTTP request-response exchanges.

11.1. Retrieving the Traces

To retrieve the traces, make a `GET` request to `/actuator/httptrace`, as shown in the following curl-based example:

```
$ curl 'http://localhost:8080/actuator/httptrace' -i -X GET
```

The resulting response is similar to the following:

```
HTTP/1.1 200 OK
Content-Type: application/vnd.spring-boot.actuator.v3+json
Content-Length: 503

{
  "traces" : [ {
    "timestamp" : "2020-06-11T22:54:12.070Z",
    "principal" : {
      "name" : "alice"
    },
    "session" : {
      "id" : "164ed41b-556f-4612-97c0-b7f1169090ee"
    },
    "request" : {
      "method" : "GET",
      "uri" : "https://api.example.com",
      "headers" : {
        "Accept" : [ "application/json" ]
      }
    },
    "response" : {
      "status" : 200,
      "headers" : {
        "Content-Type" : [ "application/json" ]
      }
    },
    "timeTaken" : 1
  } ]
}
```

11.1.1. Response Structure

The response contains details of the traced HTTP request-response exchanges. The following table describes the structure of the response:

Path	Type	Description
`traces`	`Array`	An array of traced HTTP request-response exchanges.
`traces.[].timestamp`	`String`	Timestamp of when the traced exchange occurred.
`traces.[].principal`	`Object`	Principal of the exchange, if any.
`traces.[].principal.name`	`String`	Name of the principal.
`traces.[].request.method`	`String`	HTTP method of the request.
`traces.[].request.remoteAddress`	`String`	Remote address from which the request was received, if known.
`traces.[].request.uri`	`String`	URI of the request.
`traces.[].request.headers`	`Object`	Headers of the request, keyed by header name.
`traces.[].request.headers.*.[]`	`Array`	Values of the header
`traces.[].response.status`	`Number`	Status of the response
`traces.[].response.headers`	`Object`	Headers of the response, keyed by header name.
`traces.[].response.headers.*.[]`	`Array`	Values of the header
`traces.[].session`	`Object`	Session associated with the exchange, if any.
`traces.[].session.id`	`String`	ID of the session.
`traces.[].timeTaken`	`Number`	Time, in milliseconds, taken to handle the exchange.

Chapter 12. Info (`info`)

The `info` endpoint provides general information about the application.

12.1. Retrieving the Info

To retrieve the information about the application, make a `GET` request to `/actuator/info`, as shown in the following curl-based example:

```
$ curl 'http://localhost:8080/actuator/info' -i -X GET
```

The resulting response is similar to the following:

```
HTTP/1.1 200 OK
Content-Type: application/vnd.spring-boot.actuator.v3+json
Content-Length: 235

{
  "git" : {
    "commit" : {
      "time" : "+52415-10-24T08:08:52Z",
      "id" : "df027cf"
    },
    "branch" : "master"
  },
  "build" : {
    "version" : "1.0.3",
    "artifact" : "application",
    "group" : "com.example"
  }
}
```

12.1.1. Response Structure

The response contains general information about the application. Each section of the response is contributed by an `InfoContributor`. Spring Boot provides `build` and `git` contributions.

Build Response Structure

The following table describe the structure of the `build` section of the response:

Path	Type	Description
artifact	String	Artifact ID of the application, if any.
group	String	Group ID of the application, if any.
name	String	Name of the application, if any.

Path	Type	Description
version	String	Version of the application, if any.
time	Varies	Timestamp of when the application was built, if any.

Git Response Structure

The following table describes the structure of the `git` section of the response:

Path	Type	Description
branch	String	Name of the Git branch, if any.
commit	Object	Details of the Git commit, if any.
commit.time	Varies	Timestamp of the commit, if any.
commit.id	String	ID of the commit, if any.

Chapter 13. Spring Integration graph (`integrationgraph`)

The `integrationgraph` endpoint exposes a graph containing all Spring Integration components.

13.1. Retrieving the Spring Integration graph

To retrieve the information about the application, make a `GET` request to `/actuator/integrationgraph`, as shown in the following curl-based example:

```
$ curl 'http://localhost:8080/actuator/integrationgraph' -i -X GET
```

The resulting response is similar to the following:

```
HTTP/1.1 200 OK
Content-Type: application/vnd.spring-boot.actuator.v3+json
Content-Length: 969

{
  "contentDescriptor" : {
    "providerVersion" : "5.3.1.RELEASE",
    "providerFormatVersion" : 1.2,
    "provider" : "spring-integration"
  },
  "nodes" : [ {
    "nodeId" : 1,
    "componentType" : "null-channel",
    "integrationPatternType" : "null_channel",
    "integrationPatternCategory" : "messaging_channel",
    "properties" : { },
    "name" : "nullChannel"
  }, {
    "nodeId" : 2,
    "componentType" : "publish-subscribe-channel",
    "integrationPatternType" : "publish_subscribe_channel",
    "integrationPatternCategory" : "messaging_channel",
    "properties" : { },
    "name" : "errorChannel"
  }, {
    "nodeId" : 3,
    "componentType" : "logging-channel-adapter",
    "integrationPatternType" : "outbound_channel_adapter",
    "integrationPatternCategory" : "messaging_endpoint",
    "properties" : { },
    "input" : "errorChannel",
    "name" : "errorLogger"
  } ],
  "links" : [ {
    "from" : 2,
    "to" : 3,
    "type" : "input"
  } ]
}
```

13.1.1. Response Structure

The response contains all Spring Integration components used within the application, as well as the links between them. More information about the structure can be found in the reference documentation.

13.2. Rebuilding the Spring Integration graph

To rebuild the exposed graph, make a `POST` request to `/actuator/integrationgraph`, as shown in the following curl-based example:

```
$ curl 'http://localhost:8080/actuator/integrationgraph' -i -X POST
```

This will result in a `204 - No Content` response:

```
HTTP/1.1 204 No Content
```

Chapter 14. Liquibase (`liquibase`)

The `liquibase` endpoint provides information about database change sets applied by Liquibase.

14.1. Retrieving the Changes

To retrieve the changes, make a `GET` request to `/actuator/liquibase`, as shown in the following curl-based example:

```
$ curl 'http://localhost:8080/actuator/liquibase' -i -X GET
```

The resulting response is similar to the following:

```
HTTP/1.1 200 OK
Content-Type: application/vnd.spring-boot.actuator.v3+json
Content-Length: 688

{
  "contexts" : {
    "application" : {
      "liquibaseBeans" : {
        "liquibase" : {
          "changeSets" : [ {
            "author" : "marceloverdijk",
            "changeLog" : "classpath:/db/changelog/db.changelog-master.yaml",
            "comments" : "",
            "contexts" : [ ],
            "dateExecuted" : "2020-06-11T22:54:11.625Z",
            "deploymentId" : "1916051603",
            "description" : "createTable tableName=customer",
            "execType" : "EXECUTED",
            "id" : "1",
            "labels" : [ ],
            "checksum" : "8:46debf252cce6d7b25e28ddeb9fc4bf6",
            "orderExecuted" : 1
          } ]
        }
      }
    }
  }
}
```

14.1.1. Response Structure

The response contains details of the application's Liquibase change sets. The following table describes the structure of the response:

Path	Type	Description
`contexts`	`Object`	Application contexts keyed by id
`contexts.*.liquibaseBeans.*.ch` `angeSets`	`Array`	Change sets made by the Liquibase beans, keyed by bean name.
`contexts.*.liquibaseBeans.*.ch` `angeSets[].author`	`String`	Author of the change set.
`contexts.*.liquibaseBeans.*.ch` `angeSets[].changeLog`	`String`	Change log that contains the change set.
`contexts.*.liquibaseBeans.*.ch` `angeSets[].comments`	`String`	Comments on the change set.
`contexts.*.liquibaseBeans.*.ch` `angeSets[].contexts`	`Array`	Contexts of the change set.
`contexts.*.liquibaseBeans.*.ch` `angeSets[].dateExecuted`	`String`	Timestamp of when the change set was executed.
`contexts.*.liquibaseBeans.*.ch` `angeSets[].deploymentId`	`String`	ID of the deployment that ran the change set.
`contexts.*.liquibaseBeans.*.ch` `angeSets[].description`	`String`	Description of the change set.
`contexts.*.liquibaseBeans.*.ch` `angeSets[].execType`	`String`	Execution type of the change set (`EXECUTED`, `FAILED`, `SKIPPED`, `RERAN`, `MARK_RAN`).
`contexts.*.liquibaseBeans.*.ch` `angeSets[].id`	`String`	ID of the change set.
`contexts.*.liquibaseBeans.*.ch` `angeSets[].labels`	`Array`	Labels associated with the change set.
`contexts.*.liquibaseBeans.*.ch` `angeSets[].checksum`	`String`	Checksum of the change set.
`contexts.*.liquibaseBeans.*.ch` `angeSets[].orderExecuted`	`Number`	Order of the execution of the change set.
`contexts.*.liquibaseBeans.*.ch` `angeSets[].tag`	`String`	Tag associated with the change set, if any.
`contexts.*.parentId`	`String`	Id of the parent application context, if any.

Chapter 15. Log File (`logfile`)

The `logfile` endpoint provides access to the contents of the application's log file.

15.1. Retrieving the Log File

To retrieve the log file, make a `GET` request to `/actuator/logfile`, as shown in the following curl-based example:

```
$ curl 'http://localhost:8080/actuator/logfile' -i -X GET
```

The resulting response is similar to the following:

```
HTTP/1.1 200 OK
Accept-Ranges: bytes
Content-Type: text/plain;charset=UTF-8
Content-Length: 4723

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 :: Spring Boot ::

2017-08-08 17:12:30.910  INFO 19866 --- [           main]
s.f.SampleWebFreeMarkerApplication       : Starting SampleWebFreeMarkerApplication on
host.local with PID 19866
2017-08-08 17:12:30.913  INFO 19866 --- [           main]
s.f.SampleWebFreeMarkerApplication       : No active profile set, falling back to
default profiles: default
2017-08-08 17:12:30.952  INFO 19866 --- [           main]
ConfigServletWebServerApplicationContext : Refreshing
org.springframework.boot.web.servlet.context.AnnotationConfigServletWebServerApplicati
onContext@76b10754: startup date [Tue Aug 08 17:12:30 BST 2017]; root of context
hierarchy
2017-08-08 17:12:31.878  INFO 19866 --- [           main]
o.s.b.w.embedded.tomcat.TomcatWebServer  : Tomcat initialized with port(s): 8080
(http)
2017-08-08 17:12:31.889  INFO 19866 --- [           main]
o.apache.catalina.core.StandardService   : Starting service [Tomcat]
2017-08-08 17:12:31.890  INFO 19866 --- [           main]
org.apache.catalina.core.StandardEngine  : Starting Servlet Engine: Apache
Tomcat/8.5.16
2017-08-08 17:12:31.978  INFO 19866 --- [ost-startStop-1]
o.a.c.c.C.[Tomcat].[localhost].[/]       : Initializing Spring embedded
WebApplicationContext
```

```
2017-08-08 17:12:31.978  INFO 19866 --- [ost-startStop-1]
o.s.web.context.ContextLoader           : Root WebApplicationContext: initialization
completed in 1028 ms
2017-08-08 17:12:32.080  INFO 19866 --- [ost-startStop-1]
o.s.b.w.servlet.ServletRegistrationBean : Mapping servlet: 'dispatcherServlet' to [/]
2017-08-08 17:12:32.084  INFO 19866 --- [ost-startStop-1]
o.s.b.w.servlet.FilterRegistrationBean  : Mapping filter: 'characterEncodingFilter'
to: [/*]
2017-08-08 17:12:32.084  INFO 19866 --- [ost-startStop-1]
o.s.b.w.servlet.FilterRegistrationBean  : Mapping filter: 'hiddenHttpMethodFilter'
to: [/*]
2017-08-08 17:12:32.084  INFO 19866 --- [ost-startStop-1]
o.s.b.w.servlet.FilterRegistrationBean  : Mapping filter: 'httpPutFormContentFilter'
to: [/*]
2017-08-08 17:12:32.084  INFO 19866 --- [ost-startStop-1]
o.s.b.w.servlet.FilterRegistrationBean  : Mapping filter: 'requestContextFilter' to:
[/*]
2017-08-08 17:12:32.349  INFO 19866 --- [           main]
s.w.s.m.m.a.RequestMappingHandlerAdapter : Looking for @ControllerAdvice:
org.springframework.boot.web.servlet.context.AnnotationConfigServletWebServerApplicati
onContext@76b10754: startup date [Tue Aug 08 17:12:30 BST 2017]; root of context
hierarchy
2017-08-08 17:12:32.420  INFO 19866 --- [           main]
s.w.s.m.m.a.RequestMappingHandlerMapping : Mapped "{[/error]}" onto public
org.springframework.http.ResponseEntity<java.util.Map<java.lang.String,
java.lang.Object>>
org.springframework.boot.autoconfigure.web.servlet.error.BasicErrorController.error(ja
vax.servlet.http.HttpServletRequest)
2017-08-08 17:12:32.421  INFO 19866 --- [           main]
s.w.s.m.m.a.RequestMappingHandlerMapping : Mapped "{[/error],produces=[text/html]}"
onto public org.springframework.web.servlet.ModelAndView
org.springframework.boot.autoconfigure.web.servlet.error.BasicErrorController.errorHtm
l(javax.servlet.http.HttpServletRequest,javax.servlet.http.HttpServletResponse)
2017-08-08 17:12:32.444  INFO 19866 --- [           main]
o.s.w.s.handler.SimpleUrlHandlerMapping  : Mapped URL path [/webjars/**] onto handler
of type [class org.springframework.web.servlet.resource.ResourceHttpRequestHandler]
2017-08-08 17:12:32.444  INFO 19866 --- [           main]
o.s.w.s.handler.SimpleUrlHandlerMapping  : Mapped URL path [/**] onto handler of type
[class org.springframework.web.servlet.resource.ResourceHttpRequestHandler]
2017-08-08 17:12:32.471  INFO 19866 --- [           main]
o.s.w.s.handler.SimpleUrlHandlerMapping  : Mapped URL path [/**/favicon.ico] onto
handler of type [class
org.springframework.web.servlet.resource.ResourceHttpRequestHandler]
2017-08-08 17:12:32.600  INFO 19866 --- [           main]
o.s.w.s.v.f.FreeMarkerConfigurer         : ClassTemplateLoader for Spring macros added
to FreeMarker configuration
2017-08-08 17:12:32.681  INFO 19866 --- [           main]
o.s.j.e.a.AnnotationMBeanExporter        : Registering beans for JMX exposure on
startup
2017-08-08 17:12:32.744  INFO 19866 --- [           main]
o.s.b.w.embedded.tomcat.TomcatWebServer  : Tomcat started on port(s): 8080 (http)
```

```
2017-08-08 17:12:32.750  INFO 19866 --- [           main]
s.f.SampleWebFreeMarkerApplication       : Started SampleWebFreeMarkerApplication in
2.172 seconds (JVM running for 2.479)
```

15.2. Retrieving Part of the Log File

ℹ️ Retrieving part of the log file is not supported when using Jersey.

To retrieve part of the log file, make a `GET` request to `/actuator/logfile` by using the `Range` header, as shown in the following curl-based example:

```
$ curl 'http://localhost:8080/actuator/logfile' -i -X GET \
    -H 'Range: bytes=0-1023'
```

The preceding example retrieves the first 1024 bytes of the log file. The resulting response is similar to the following:

```
HTTP/1.1 206 Partial Content
Accept-Ranges: bytes
Content-Type: text/plain;charset=UTF-8
Content-Range: bytes 0-1023/4723
Content-Length: 1024


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 :: Spring Boot ::

2017-08-08 17:12:30.910  INFO 19866 --- [           main]
s.f.SampleWebFreeMarkerApplication       : Starting SampleWebFreeMarkerApplication on
host.local with PID 19866
2017-08-08 17:12:30.913  INFO 19866 --- [           main]
s.f.SampleWebFreeMarkerApplication       : No active profile set, falling back to
default profiles: default
2017-08-08 17:12:30.952  INFO 19866 --- [           main]
ConfigServletWebServerApplicationContext : Refreshing
org.springframework.boot.web.servlet.context.AnnotationConfigServletWebServerApplicati
onContext@76b10754: startup date [Tue Aug 08 17:12:30 BST 2017]; root of context
hierarchy
2017-08-08 17:12:31.878  INFO 19866 --- [           main]
o.s.b.w.embedded.tomcat.TomcatWebServer  : Tomcat initialized with port(
```

Chapter 16. Loggers (`loggers`)

The `loggers` endpoint provides access to the application's loggers and the configuration of their levels.

16.1. Retrieving All Loggers

To retrieve the application's loggers, make a `GET` request to `/actuator/loggers`, as shown in the following curl-based example:

```
$ curl 'http://localhost:8080/actuator/loggers' -i -X GET
```

The resulting response is similar to the following:

```
HTTP/1.1 200 OK
Content-Type: application/vnd.spring-boot.actuator.v3+json
Content-Length: 791

{
  "levels" : [ "OFF", "FATAL", "ERROR", "WARN", "INFO", "DEBUG", "TRACE" ],
  "loggers" : {
    "ROOT" : {
      "configuredLevel" : "INFO",
      "effectiveLevel" : "INFO"
    },
    "com.example" : {
      "configuredLevel" : "DEBUG",
      "effectiveLevel" : "DEBUG"
    }
  },
  "groups" : {
    "test" : {
      "configuredLevel" : "INFO",
      "members" : [ "test.member1", "test.member2" ]
    },
    "web" : {
      "members" : [ "org.springframework.core.codec", "org.springframework.http",
"org.springframework.web", "org.springframework.boot.actuate.endpoint.web",
"org.springframework.boot.web.servlet.ServletContextInitializerBeans" ]
    },
    "sql" : {
      "members" : [ "org.springframework.jdbc.core", "org.hibernate.SQL",
"org.jooq.tools.LoggerListener" ]
    }
  }
}
```

16.1.1. Response Structure

The response contains details of the application's loggers. The following table describes the structure of the response:

Path	Type	Description
`levels`	`Array`	Levels support by the logging system.
`loggers`	`Object`	Loggers keyed by name.
`groups`	`Object`	Logger groups keyed by name
`loggers.*.configuredLevel`	`String`	Configured level of the logger, if any.
`loggers.*.effectiveLevel`	`String`	Effective level of the logger.
`groups.*.configuredLevel`	`String`	Configured level of the logger group, if any.
`groups.*.members`	`Array`	Loggers that are part of this group

16.2. Retrieving a Single Logger

To retrieve a single logger, make a `GET` request to `/actuator/loggers/{logger.name}`, as shown in the following curl-based example:

```
$ curl 'http://localhost:8080/actuator/loggers/com.example' -i -X GET
```

The preceding example retrieves information about the logger named `com.example`. The resulting response is similar to the following:

```
HTTP/1.1 200 OK
Content-Disposition: inline;filename=f.txt
Content-Type: application/vnd.spring-boot.actuator.v3+json
Content-Length: 61

{
  "configuredLevel" : "INFO",
  "effectiveLevel" : "INFO"
}
```

16.2.1. Response Structure

The response contains details of the requested logger. The following table describes the structure of the response:

Path	Type	Description
`configuredLevel`	`String`	Configured level of the logger, if any.

Path	Type	Description
effectiveLevel	String	Effective level of the logger.

16.3. Retrieving a Single Group

To retrieve a single group, make a `GET` request to `/actuator/loggers/{group.name}`, as shown in the following curl-based example:

```
$ curl 'http://localhost:8080/actuator/loggers/test' -i -X GET
```

The preceding example retrieves information about the logger group named `test`. The resulting response is similar to the following:

```
HTTP/1.1 200 OK
Content-Type: application/vnd.spring-boot.actuator.v3+json
Content-Length: 82

{
  "configuredLevel" : "INFO",
  "members" : [ "test.member1", "test.member2" ]
}
```

16.3.1. Response Structure

The response contains details of the requested group. The following table describes the structure of the response:

Path	Type	Description
configuredLevel	String	Configured level of the logger group, if any.
members	Array	Loggers that are part of this group

16.4. Setting a Log Level

To set the level of a logger, make a `POST` request to `/actuator/loggers/{logger.name}` with a JSON body that specifies the configured level for the logger, as shown in the following curl-based example:

```
$ curl 'http://localhost:8080/actuator/loggers/com.example' -i -X POST \
    -H 'Content-Type: application/json' \
    -d '{"configuredLevel":"debug"}'
```

The preceding example sets the `configuredLevel` of the `com.example` logger to `DEBUG`.

16.4.1. Request Structure

The request specifies the desired level of the logger. The following table describes the structure of the request:

Path	Type	Description
configuredLevel	String	Level for the logger. May be omitted to clear the level.

16.5. Setting a Log Level for a Group

To set the level of a logger, make a POST request to /actuator/loggers/{group.name} with a JSON body that specifies the configured level for the logger group, as shown in the following curl-based example:

```
$ curl 'http://localhost:8080/actuator/loggers/test' -i -X POST \
    -H 'Content-Type: application/json' \
    -d '{"configuredLevel":"debug"}'
```

The preceding example sets the configuredLevel of the test logger group to DEBUG.

16.5.1. Request Structure

The request specifies the desired level of the logger group. The following table describes the structure of the request:

Path	Type	Description
configuredLevel	String	Level for the logger. May be omitted to clear the level.

16.6. Clearing a Log Level

To clear the level of a logger, make a POST request to /actuator/loggers/{logger.name} with a JSON body containing an empty object, as shown in the following curl-based example:

```
$ curl 'http://localhost:8080/actuator/loggers/com.example' -i -X POST \
    -H 'Content-Type: application/json' \
    -d '{}'
```

The preceding example clears the configured level of the com.example logger.

Chapter 17. Mappings (`mappings`)

The `mappings` endpoint provides information about the application's request mappings.

17.1. Retrieving the Mappings

To retrieve the mappings, make a `GET` request to `/actuator/mappings`, as shown in the following curl-based example:

```
$ curl 'http://localhost:37501/actuator/mappings' -i -X GET
```

The resulting response is similar to the following:

```
HTTP/1.1 200 OK
Content-Type: application/vnd.spring-boot.actuator.v3+json
Transfer-Encoding: chunked
Date: Thu, 11 Jun 2020 22:54:09 GMT
Content-Length: 5476

{
  "contexts" : {
    "application" : {
      "mappings" : {
        "dispatcherServlets" : {
          "dispatcherServlet" : [ {
            "handler" : "Actuator web endpoint 'mappings'",
            "predicate" : "{GET /actuator/mappings, produces [application/vnd.spring-
boot.actuator.v3+json || application/vnd.spring-boot.actuator.v2+json ||
application/json]}",
            "details" : {
              "handlerMethod" : {
                "className" :
"org.springframework.boot.actuate.endpoint.web.servlet.AbstractWebMvcEndpointHandlerMa
pping.OperationHandler",
                "name" : "handle",
                "descriptor" :
"(Ljavax/servlet/http/HttpServletRequest;Ljava/util/Map;)Ljava/lang/Object;"
              },
              "requestMappingConditions" : {
                "consumes" : [ ],
                "headers" : [ ],
                "methods" : [ "GET" ],
                "params" : [ ],
                "patterns" : [ "/actuator/mappings" ],
                "produces" : [ {
                  "mediaType" : "application/vnd.spring-boot.actuator.v3+json",
                  "negated" : false
                }, {
```

```
              "mediaType" : "application/vnd.spring-boot.actuator.v2+json",
              "negated" : false
            }, {
              "mediaType" : "application/json",
              "negated" : false
            } ]
          }
        }
      }, {
        "handler" : "Actuator root web endpoint",
        "predicate" : "{GET /actuator, produces [application/vnd.spring-
boot.actuator.v3+json || application/vnd.spring-boot.actuator.v2+json ||
application/json]}",
        "details" : {
          "handlerMethod" : {
            "className" :
"org.springframework.boot.actuate.endpoint.web.servlet.WebMvcEndpointHandlerMapping.We
bMvcLinksHandler",
            "name" : "links",
            "descriptor" :
"(Ljavax/servlet/http/HttpServletRequest;Ljavax/servlet/http/HttpServletResponse;)Ljav
a/lang/Object;"
          },
          "requestMappingConditions" : {
            "consumes" : [ ],
            "headers" : [ ],
            "methods" : [ "GET" ],
            "params" : [ ],
            "patterns" : [ "/actuator" ],
            "produces" : [ {
              "mediaType" : "application/vnd.spring-boot.actuator.v3+json",
              "negated" : false
            }, {
              "mediaType" : "application/vnd.spring-boot.actuator.v2+json",
              "negated" : false
            }, {
              "mediaType" : "application/json",
              "negated" : false
            } ]
          }
        }
      }, {
        "handler" :
"org.springframework.boot.actuate.autoconfigure.endpoint.web.documentation.MappingsEnd
pointServletDocumentationTests$ExampleController#example()",
        "predicate" : "{POST /, params [a!=alpha], headers [X-Custom=Foo],
consumes [application/json || !application/xml], produces [text/plain]}",
        "details" : {
          "handlerMethod" : {
            "className" :
"org.springframework.boot.actuate.autoconfigure.endpoint.web.documentation.MappingsEnd
```

```
pointServletDocumentationTests.ExampleController",
                "name" : "example",
                "descriptor" : "()Ljava/lang/String;"
              },
              "requestMappingConditions" : {
                "consumes" : [ {
                  "mediaType" : "application/json",
                  "negated" : false
                }, {
                  "mediaType" : "application/xml",
                  "negated" : true
                } ],
                "headers" : [ {
                  "name" : "X-Custom",
                  "value" : "Foo",
                  "negated" : false
                } ],
                "methods" : [ "POST" ],
                "params" : [ {
                  "name" : "a",
                  "value" : "alpha",
                  "negated" : true
                } ],
                "patterns" : [ "/" ],
                "produces" : [ {
                  "mediaType" : "text/plain",
                  "negated" : false
                } ]
              }
            }
          }
        }, {
          "handler" : "ResourceHttpRequestHandler [\"classpath:/META-
INF/resources/webjars/\"]",
          "predicate" : "/webjars/**"
        }, {
          "handler" : "ResourceHttpRequestHandler [\"classpath:/META-
INF/resources/\", \"classpath:/resources/\", \"classpath:/static/\",
\"classpath:/public/\", \"/\"]",
          "predicate" : "/**"
        } ]
      },
      "servletFilters" : [ {
        "servletNameMappings" : [ ],
        "urlPatternMappings" : [ "/*" ],
        "name" : "requestContextFilter",
        "className" :
"org.springframework.boot.web.servlet.filter.OrderedRequestContextFilter"
      }, {
        "servletNameMappings" : [ ],
        "urlPatternMappings" : [ "/*" ],
        "name" : "formContentFilter",
```

```
          "className" :
  "org.springframework.boot.web.servlet.filter.OrderedFormContentFilter"
        } ],
        "servlets" : [ {
          "mappings" : [ ],
          "name" : "default",
          "className" : "org.apache.catalina.servlets.DefaultServlet"
        }, {
          "mappings" : [ "/" ],
          "name" : "dispatcherServlet",
          "className" : "org.springframework.web.servlet.DispatcherServlet"
        } ]
      }
    }
  }
}
```

17.1.1. Response Structure

The response contains details of the application's mappings. The items found in the response depend on the type of web application (reactive or Servlet-based). The following table describes the structure of the common elements of the response:

Path	Type	Description
contexts	Object	Application contexts keyed by id.
contexts.*.mappings	Object	Mappings in the context, keyed by mapping type.
contexts.*.mappings.dispatcherServlets	Object	Dispatcher servlet mappings, if any.
contexts.*.mappings.servletFilters	Array	Servlet filter mappings, if any.
contexts.*.mappings.servlets	Array	Servlet mappings, if any.
contexts.*.mappings.dispatcherHandlers	Object	Dispatcher handler mappings, if any.
contexts.*.parentId	String	Id of the parent application context, if any.

The entries that may be found in contexts.*.mappings are described in the following sections.

17.1.2. Dispatcher Servlets Response Structure

When using Spring MVC, the response contains details of any DispatcherServlet request mappings beneath contexts.*.mappings.dispatcherServlets. The following table describes the structure of this section of the response:

Path	Type	Description
`*`	`Array`	Dispatcher servlet mappings, if any, keyed by dispatcher servlet bean name.
`*.[].details`	`Object`	Additional implementation-specific details about the mapping. Optional.
`*.[].handler`	`String`	Handler for the mapping.
`*.[].predicate`	`String`	Predicate for the mapping.
`*.[].details.handlerMethod`	`Object`	Details of the method, if any, that will handle requests to this mapping.
`*.[].details.handlerMethod.className`	`Varies`	Fully qualified name of the class of the method.
`*.[].details.handlerMethod.name`	`Varies`	Name of the method.
`*.[].details.handlerMethod.descriptor`	`Varies`	Descriptor of the method as specified in the Java Language Specification.
`*.[].details.requestMappingConditions`	`Object`	Details of the request mapping conditions.
`*.[].details.requestMappingConditions.consumes`	`Varies`	Details of the consumes condition
`*.[].details.requestMappingConditions.consumes.[].mediaType`	`Varies`	Consumed media type.
`*.[].details.requestMappingConditions.consumes.[].negated`	`Varies`	Whether the media type is negated.
`*.[].details.requestMappingConditions.headers`	`Varies`	Details of the headers condition.
`*.[].details.requestMappingConditions.headers.[].name`	`Varies`	Name of the header.
`*.[].details.requestMappingConditions.headers.[].value`	`Varies`	Required value of the header, if any.
`*.[].details.requestMappingConditions.headers.[].negated`	`Varies`	Whether the value is negated.
`*.[].details.requestMappingConditions.methods`	`Varies`	HTTP methods that are handled.
`*.[].details.requestMappingConditions.params`	`Varies`	Details of the params condition.
`*.[].details.requestMappingConditions.params.[].name`	`Varies`	Name of the parameter.

Path	Type	Description
`*.[].details.requestMappingConditions.params.[].value`	Varies	Required value of the parameter, if any.
`*.[].details.requestMappingConditions.params.[].negated`	Varies	Whether the value is negated.
`*.[].details.requestMappingConditions.patterns`	Varies	Patterns identifying the paths handled by the mapping.
`*.[].details.requestMappingConditions.produces`	Varies	Details of the produces condition.
`*.[].details.requestMappingConditions.produces.[].mediaType`	Varies	Produced media type.
`*.[].details.requestMappingConditions.produces.[].negated`	Varies	Whether the media type is negated.

17.1.3. Servlets Response Structure

When using the Servlet stack, the response contains details of any `Servlet` mappings beneath `contexts.*.mappings.servlets`. The following table describes the structure of this section of the response:

Path	Type	Description
`[].mappings`	Array	Mappings of the servlet.
`[].name`	String	Name of the servlet.
`[].className`	String	Class name of the servlet

17.1.4. Servlet Filters Response Structure

When using the Servlet stack, the response contains details of any `Filter` mappings beneath `contexts.*.mappings.servletFilters`. The following table describes the structure of this section of the response:

Path	Type	Description
`[].servletNameMappings`	Array	Names of the servlets to which the filter is mapped.
`[].urlPatternMappings`	Array	URL pattern to which the filter is mapped.
`[].name`	String	Name of the filter.
`[].className`	String	Class name of the filter

17.1.5. Dispatcher Handlers Response Structure

When using Spring WebFlux, the response contains details of any `DispatcherHandler` request mappings beneath `contexts.*.mappings.dispatcherHandlers`. The following table describes the

structure of this section of the response:

Path	Type	Description
*	Array	Dispatcher handler mappings, if any, keyed by dispatcher handler bean name.
*.[].details	Object	Additional implementation-specific details about the mapping. Optional.
*.[].handler	String	Handler for the mapping.
*.[].predicate	String	Predicate for the mapping.
*.[].details.requestMappingConditions	Object	Details of the request mapping conditions.
*.[].details.requestMappingConditions.consumes	Array	Details of the consumes condition
*.[].details.requestMappingConditions.consumes.[].mediaType	String	Consumed media type.
*.[].details.requestMappingConditions.consumes.[].negated	Boolean	Whether the media type is negated.
*.[].details.requestMappingConditions.headers	Array	Details of the headers condition.
*.[].details.requestMappingConditions.headers.[].name	String	Name of the header.
*.[].details.requestMappingConditions.headers.[].value	String	Required value of the header, if any.
*.[].details.requestMappingConditions.headers.[].negated	Boolean	Whether the value is negated.
*.[].details.requestMappingConditions.methods	Array	HTTP methods that are handled.
*.[].details.requestMappingConditions.params	Array	Details of the params condition.
*.[].details.requestMappingConditions.params.[].name	String	Name of the parameter.
*.[].details.requestMappingConditions.params.[].value	String	Required value of the parameter, if any.
*.[].details.requestMappingConditions.params.[].negated	Boolean	Whether the value is negated.
*.[].details.requestMappingConditions.patterns	Array	Patterns identifying the paths handled by the mapping.

Path	Type	Description
`*.[].details.requestMappingConditions.produces`	`Array`	Details of the produces condition.
`*.[].details.requestMappingConditions.produces.[].mediaType`	`String`	Produced media type.
`*.[].details.requestMappingConditions.produces.[].negated`	`Boolean`	Whether the media type is negated.
`*.[].details.handlerMethod`	`Object`	Details of the method, if any, that will handle requests to this mapping.
`*.[].details.handlerMethod.className`	`String`	Fully qualified name of the class of the method.
`*.[].details.handlerMethod.name`	`String`	Name of the method.
`*.[].details.handlerMethod.descriptor`	`String`	Descriptor of the method as specified in the Java Language Specification.
`*.[].details.handlerFunction`	`Object`	Details of the function, if any, that will handle requests to this mapping.
`*.[].details.handlerFunction.className`	`String`	Fully qualified name of the class of the function.

Chapter 18. Metrics (`metrics`)

The `metrics` endpoint provides access to application metrics.

18.1. Retrieving Metric Names

To retrieve the names of the available metrics, make a `GET` request to `/actuator/metrics`, as shown in the following curl-based example:

```
$ curl 'http://localhost:8080/actuator/metrics' -i -X GET
```

The resulting response is similar to the following:

```
HTTP/1.1 200 OK
Content-Type: application/vnd.spring-boot.actuator.v3+json
Content-Length: 154

{
  "names" : [ "jvm.buffer.count", "jvm.buffer.memory.used",
"jvm.buffer.total.capacity", "jvm.memory.committed", "jvm.memory.max",
"jvm.memory.used" ]
}
```

18.1.1. Response Structure

The response contains details of the metric names. The following table describes the structure of the response:

Path	Type	Description
`names`	`Array`	Names of the known metrics.

18.2. Retrieving a Metric

To retrieve a metric, make a `GET` request to `/actuator/metrics/{metric.name}`, as shown in the following curl-based example:

```
$ curl 'http://localhost:8080/actuator/metrics/jvm.memory.max' -i -X GET
```

The preceding example retrieves information about the metric named `jvm.memory.max`. The resulting response is similar to the following:

```
HTTP/1.1 200 OK
Content-Disposition: inline;filename=f.txt
Content-Type: application/vnd.spring-boot.actuator.v3+json
Content-Length: 474

{
  "name" : "jvm.memory.max",
  "description" : "The maximum amount of memory in bytes that can be used for memory
management",
  "baseUnit" : "bytes",
  "measurements" : [ {
    "statistic" : "VALUE",
    "value" : 2.371878911E9
  } ],
  "availableTags" : [ {
    "tag" : "area",
    "values" : [ "heap", "nonheap" ]
  }, {
    "tag" : "id",
    "values" : [ "Compressed Class Space", "PS Old Gen", "PS Survivor Space",
"Metaspace", "PS Eden Space", "Code Cache" ]
  } ]
}
```

18.2.1. Query Parameters

The endpoint uses query parameters to drill down into a metric by using its tags. The following table shows the single supported query parameter:

Parameter	Description
tag	A tag to use for drill-down in the form `name:value`.

18.2.2. Response structure

The response contains details of the metric. The following table describes the structure of the response:

Path	Type	Description
name	String	Name of the metric
description	String	Description of the metric
baseUnit	String	Base unit of the metric
measurements	Array	Measurements of the metric

Path	Type	Description
measurements[].statistic	String	Statistic of the measurement. (TOTAL, TOTAL_TIME, COUNT, MAX, VALUE, UNKNOWN, ACTIVE_TASKS, DURATION).
measurements[].value	Number	Value of the measurement.
availableTags	Array	Tags that are available for drill-down.
availableTags[].tag	String	Name of the tag.
availableTags[].values	Array	Possible values of the tag.

18.3. Drilling Down

To drill down into a metric, make a GET request to /actuator/metrics/{metric.name} using the tag query parameter, as shown in the following curl-based example:

```
$ curl
'http://localhost:8080/actuator/metrics/jvm.memory.max?tag=area%3Anonheap&tag=id%3ACom
pressed+Class+Space' -i -X GET
```

The preceding example retrieves the jvm.memory.max metric, where the area tag has a value of nonheap and the id attribute has a value of Compressed Class Space. The resulting response is similar to the following:

```
HTTP/1.1 200 OK
Content-Disposition: inline;filename=f.txt
Content-Type: application/vnd.spring-boot.actuator.v3+json
Content-Length: 263

{
  "name" : "jvm.memory.max",
  "description" : "The maximum amount of memory in bytes that can be used for memory
management",
  "baseUnit" : "bytes",
  "measurements" : [ {
    "statistic" : "VALUE",
    "value" : 1.073741824E9
  } ],
  "availableTags" : [ ]
}
```

Chapter 19. Prometheus (`prometheus`)

The `prometheus` endpoint provides Spring Boot application's metrics in the format required for scraping by a Prometheus server.

19.1. Retrieving the Metrics

To retrieve the metrics, make a `GET` request to `/actuator/prometheus`, as shown in the following curl-based example:

```
$ curl 'http://localhost:8080/actuator/prometheus' -i -X GET
```

The resulting response is similar to the following:

```
HTTP/1.1 200 OK
Content-Type: text/plain;version=0.0.4;charset=utf-8
Content-Length: 2371

# HELP jvm_memory_used_bytes The amount of used memory
# TYPE jvm_memory_used_bytes gauge
jvm_memory_used_bytes{area="heap",id="PS Survivor Space",} 6882480.0
jvm_memory_used_bytes{area="heap",id="PS Old Gen",} 2.60186288E8
jvm_memory_used_bytes{area="heap",id="PS Eden Space",} 2.8630636E8
jvm_memory_used_bytes{area="nonheap",id="Metaspace",} 2.35279392E8
jvm_memory_used_bytes{area="nonheap",id="Code Cache",} 7.2262592E7
jvm_memory_used_bytes{area="nonheap",id="Compressed Class Space",} 3.3389288E7
# HELP jvm_memory_committed_bytes The amount of memory in bytes that is committed for
the Java virtual machine to use
# TYPE jvm_memory_committed_bytes gauge
jvm_memory_committed_bytes{area="heap",id="PS Survivor Space",} 1.835008E7
jvm_memory_committed_bytes{area="heap",id="PS Old Gen",} 3.55467264E8
jvm_memory_committed_bytes{area="heap",id="PS Eden Space",} 3.18242816E8
jvm_memory_committed_bytes{area="nonheap",id="Metaspace",} 2.53886464E8
jvm_memory_committed_bytes{area="nonheap",id="Code Cache",} 7.3269248E7
jvm_memory_committed_bytes{area="nonheap",id="Compressed Class Space",} 3.7093376E7
# HELP jvm_buffer_total_capacity_bytes An estimate of the total capacity of the
buffers in this pool
# TYPE jvm_buffer_total_capacity_bytes gauge
jvm_buffer_total_capacity_bytes{id="direct",} 475347.0
jvm_buffer_total_capacity_bytes{id="mapped",} 0.0
# HELP jvm_buffer_count_buffers An estimate of the number of buffers in the pool
# TYPE jvm_buffer_count_buffers gauge
jvm_buffer_count_buffers{id="direct",} 22.0
jvm_buffer_count_buffers{id="mapped",} 0.0
# HELP jvm_memory_max_bytes The maximum amount of memory in bytes that can be used for
memory management
# TYPE jvm_memory_max_bytes gauge
jvm_memory_max_bytes{area="heap",id="PS Survivor Space",} 1.835008E7
jvm_memory_max_bytes{area="heap",id="PS Old Gen",} 7.16177408E8
jvm_memory_max_bytes{area="heap",id="PS Eden Space",} 3.21388544E8
jvm_memory_max_bytes{area="nonheap",id="Metaspace",} -1.0
jvm_memory_max_bytes{area="nonheap",id="Code Cache",} 2.5165824E8
jvm_memory_max_bytes{area="nonheap",id="Compressed Class Space",} 1.073741824E9
# HELP jvm_buffer_memory_used_bytes An estimate of the memory that the Java virtual
machine is using for this buffer pool
# TYPE jvm_buffer_memory_used_bytes gauge
jvm_buffer_memory_used_bytes{id="direct",} 475349.0
jvm_buffer_memory_used_bytes{id="mapped",} 0.0
```

Chapter 20. Scheduled Tasks (`scheduledtasks`)

The `scheduledtasks` endpoint provides information about the application's scheduled tasks.

20.1. Retrieving the Scheduled Tasks

To retrieve the scheduled tasks, make a `GET` request to `/actuator/scheduledtasks`, as shown in the following curl-based example:

```
$ curl 'http://localhost:8080/actuator/scheduledtasks' -i -X GET
```

The resulting response is similar to the following:

```
HTTP/1.1 200 OK
Content-Type: application/vnd.spring-boot.actuator.v3+json
Content-Length: 629

{
  "cron" : [ {
    "runnable" : {
      "target" : "com.example.Processor.processOrders"
    },
    "expression" : "0 0 0/3 1/1 * ?"
  } ],
  "fixedDelay" : [ {
    "runnable" : {
      "target" : "com.example.Processor.purge"
    },
    "initialDelay" : 5000,
    "interval" : 5000
  } ],
  "fixedRate" : [ {
    "runnable" : {
      "target" : "com.example.Processor.retrieveIssues"
    },
    "initialDelay" : 10000,
    "interval" : 3000
  } ],
  "custom" : [ {
    "runnable" : {
      "target" : "com.example.Processor$CustomTriggeredRunnable"
    },
    "trigger" : "com.example.Processor$CustomTrigger@6e76bebe"
  } ]
}
```

20.1.1. Response Structure

The response contains details of the application's scheduled tasks. The following table describes the structure of the response:

Path	Type	Description
cron	Array	Cron tasks, if any.
cron.[].runnable.target	String	Target that will be executed.
cron.[].expression	String	Cron expression.
fixedDelay	Array	Fixed delay tasks, if any.
fixedDelay.[].runnable.target	String	Target that will be executed.
fixedDelay.[].initialDelay	Number	Delay, in milliseconds, before first execution.
fixedDelay.[].interval	Number	Interval, in milliseconds, between the end of the last execution and the start of the next.
fixedRate	Array	Fixed rate tasks, if any.
fixedRate.[].runnable.target	String	Target that will be executed.
fixedRate.[].interval	Number	Interval, in milliseconds, between the start of each execution.
fixedRate.[].initialDelay	Number	Delay, in milliseconds, before first execution.
custom	Array	Tasks with custom triggers, if any.
custom.[].runnable.target	String	Target that will be executed.
custom.[].trigger	String	Trigger for the task.

Chapter 21. Sessions (`sessions`)

The `sessions` endpoint provides information about the application's HTTP sessions that are managed by Spring Session.

21.1. Retrieving Sessions

To retrieve the sessions, make a `GET` request to `/actuator/sessions`, as shown in the following curl-based example:

```
$ curl 'http://localhost:8080/actuator/sessions?username=alice' -i -X GET
```

The preceding examples retrieves all of the sessions for the user whose username is `alice`. The resulting response is similar to the following:

```
HTTP/1.1 200 OK
Content-Type: application/vnd.spring-boot.actuator.v3+json
Content-Length: 753

{
  "sessions" : [ {
    "id" : "f62c21d4-9a34-45c1-b33b-93eece67c6f2",
    "attributeNames" : [ ],
    "creationTime" : "2020-06-11T20:54:12.097Z",
    "lastAccessedTime" : "2020-06-11T22:54:00.097Z",
    "maxInactiveInterval" : 1800,
    "expired" : false
  }, {
    "id" : "04e2e1ec-9734-4518-829b-d6f9bc4b77ed",
    "attributeNames" : [ ],
    "creationTime" : "2020-06-11T10:54:12.097Z",
    "lastAccessedTime" : "2020-06-11T22:53:27.097Z",
    "maxInactiveInterval" : 1800,
    "expired" : false
  }, {
    "id" : "4db5efcc-99cb-4d05-a52c-b49acfbb7ea9",
    "attributeNames" : [ ],
    "creationTime" : "2020-06-11T17:54:12.097Z",
    "lastAccessedTime" : "2020-06-11T22:53:35.097Z",
    "maxInactiveInterval" : 1800,
    "expired" : false
  } ]
}
```

21.1.1. Query Parameters

The endpoint uses query parameters to limit the sessions that it returns. The following table shows the single required query parameter:

Parameter	Description
`username`	Name of the user.

21.1.2. Response Structure

The response contains details of the matching sessions. The following table describes the structure of the response:

Path	Type	Description
`sessions`	`Array`	Sessions for the given username.
`sessions.[].id`	`String`	ID of the session.
`sessions.[].attributeNames`	`Array`	Names of the attributes stored in the session.
`sessions.[].creationTime`	`String`	Timestamp of when the session was created.
`sessions.[].lastAccessedTime`	`String`	Timestamp of when the session was last accessed.
`sessions.[].maxInactiveInterval`	`Number`	Maximum permitted period of inactivity, in seconds, before the session will expire.
`sessions.[].expired`	`Boolean`	Whether the session has expired.

21.2. Retrieving a Single Session

To retrieve a single session, make a `GET` request to `/actuator/sessions/{id}`, as shown in the following curl-based example:

```
$ curl 'http://localhost:8080/actuator/sessions/4db5efcc-99cb-4d05-a52c-b49acfbb7ea9'
-i -X GET
```

The preceding example retrieves the session with the `id` of `4db5efcc-99cb-4d05-a52c-b49acfbb7ea9`. The resulting response is similar to the following:

```
HTTP/1.1 200 OK
Content-Type: application/vnd.spring-boot.actuator.v3+json
Content-Length: 228

{
  "id" : "4db5efcc-99cb-4d05-a52c-b49acfbb7ea9",
  "attributeNames" : [ ],
  "creationTime" : "2020-06-11T17:54:12.097Z",
  "lastAccessedTime" : "2020-06-11T22:53:35.097Z",
  "maxInactiveInterval" : 1800,
  "expired" : false
}
```

21.2.1. Response Structure

The response contains details of the requested session. The following table describes the structure of the response:

Path	Type	Description
id	String	ID of the session.
attributeNames	Array	Names of the attributes stored in the session.
creationTime	String	Timestamp of when the session was created.
lastAccessedTime	String	Timestamp of when the session was last accessed.
maxInactiveInterval	Number	Maximum permitted period of inactivity, in seconds, before the session will expire.
expired	Boolean	Whether the session has expired.

21.3. Deleting a Session

To delete a session, make a DELETE request to /actuator/sessions/{id}, as shown in the following curl-based example:

```
$ curl 'http://localhost:8080/actuator/sessions/4db5efcc-99cb-4d05-a52c-b49acfbb7ea9'
-i -X DELETE
```

The preceding example deletes the session with the id of 4db5efcc-99cb-4d05-a52c-b49acfbb7ea9.

Chapter 22. Shutdown (`shutdown`)

The `shutdown` endpoint is used to shut down the application.

22.1. Shutting Down the Application

To shut down the application, make a `POST` request to `/actuator/shutdown`, as shown in the following curl-based example:

```
$ curl 'http://localhost:8080/actuator/shutdown' -i -X POST
```

A response similar to the following is produced:

```
HTTP/1.1 200 OK
Content-Type: application/vnd.spring-boot.actuator.v3+json
Content-Length: 41

{
  "message" : "Shutting down, bye..."
}
```

22.1.1. Response Structure

The response contains details of the result of the shutdown request. The following table describes the structure of the response:

Path	Type	Description
message	String	Message describing the result of the request.

Chapter 23. Thread Dump (`threaddump`)

The `threaddump` endpoint provides a thread dump from the application's JVM.

23.1. Retrieving the Thread Dump as JSON

To retrieve the thread dump as JSON, make a `GET` request to `/actuator/threaddump` with an appropriate `Accept` header, as shown in the following curl-based example:

```
$ curl 'http://localhost:8080/actuator/threaddump' -i -X GET \
    -H 'Accept: application/json'
```

The resulting response is similar to the following:

```
HTTP/1.1 200 OK
Content-Type: application/json
Content-Length: 7418

{
  "threads" : [ {
    "threadName" : "Thread-5164",
    "threadId" : 6557,
    "blockedTime" : -1,
    "blockedCount" : 0,
    "waitedTime" : -1,
    "waitedCount" : 1,
    "lockName" : "java.util.concurrent.CountDownLatch$Sync@5d7b8e17",
    "lockOwnerId" : -1,
    "inNative" : false,
    "suspended" : false,
    "threadState" : "WAITING",
    "stackTrace" : [ {
      "methodName" : "park",
      "fileName" : "Unsafe.java",
      "lineNumber" : -2,
      "className" : "sun.misc.Unsafe",
      "nativeMethod" : true
    }, {
      "methodName" : "park",
      "fileName" : "LockSupport.java",
      "lineNumber" : 175,
      "className" : "java.util.concurrent.locks.LockSupport",
      "nativeMethod" : false
    }, {
      "methodName" : "parkAndCheckInterrupt",
      "fileName" : "AbstractQueuedSynchronizer.java",
      "lineNumber" : 836,
      "className" : "java.util.concurrent.locks.AbstractQueuedSynchronizer",
```

```
      "nativeMethod" : false
    }, {
      "methodName" : "doAcquireSharedInterruptibly",
      "fileName" : "AbstractQueuedSynchronizer.java",
      "lineNumber" : 997,
      "className" : "java.util.concurrent.locks.AbstractQueuedSynchronizer",
      "nativeMethod" : false
    }, {
      "methodName" : "acquireSharedInterruptibly",
      "fileName" : "AbstractQueuedSynchronizer.java",
      "lineNumber" : 1304,
      "className" : "java.util.concurrent.locks.AbstractQueuedSynchronizer",
      "nativeMethod" : false
    }, {
      "methodName" : "await",
      "fileName" : "CountDownLatch.java",
      "lineNumber" : 231,
      "className" : "java.util.concurrent.CountDownLatch",
      "nativeMethod" : false
    }, {
      "methodName" : "lambda$jsonThreadDump$0",
      "fileName" : "ThreadDumpEndpointDocumentationTests.java",
      "lineNumber" : 56,
      "className" :
"org.springframework.boot.actuate.autoconfigure.endpoint.web.documentation.ThreadDumpE
ndpointDocumentationTests",
      "nativeMethod" : false
    }, {
      "methodName" : "run",
      "lineNumber" : -1,
      "className" :
"org.springframework.boot.actuate.autoconfigure.endpoint.web.documentation.ThreadDumpE
ndpointDocumentationTests$$Lambda$4799/866675199",
      "nativeMethod" : false
    }, {
      "methodName" : "run",
      "fileName" : "Thread.java",
      "lineNumber" : 748,
      "className" : "java.lang.Thread",
      "nativeMethod" : false
    } ],
    "lockedMonitors" : [ ],
    "lockedSynchronizers" : [ {
      "className" : "java.util.concurrent.locks.ReentrantLock$NonfairSync",
      "identityHashCode" : 839611288
    } ],
    "lockInfo" : {
      "className" : "java.util.concurrent.CountDownLatch$Sync",
      "identityHashCode" : 1568378391
    }
  }, {
```

```
      "threadName" : "HikariPool-13 connection adder",
      "threadId" : 6418,
      "blockedTime" : -1,
      "blockedCount" : 0,
      "waitedTime" : -1,
      "waitedCount" : 1,
      "lockName" :
"java.util.concurrent.locks.AbstractQueuedSynchronizer$ConditionObject@645ded9b",
      "lockOwnerId" : -1,
      "inNative" : false,
      "suspended" : false,
      "threadState" : "TIMED_WAITING",
      "stackTrace" : [ {
        "methodName" : "park",
        "fileName" : "Unsafe.java",
        "lineNumber" : -2,
        "className" : "sun.misc.Unsafe",
        "nativeMethod" : true
      }, {
        "methodName" : "parkNanos",
        "fileName" : "LockSupport.java",
        "lineNumber" : 215,
        "className" : "java.util.concurrent.locks.LockSupport",
        "nativeMethod" : false
      }, {
        "methodName" : "awaitNanos",
        "fileName" : "AbstractQueuedSynchronizer.java",
        "lineNumber" : 2078,
        "className" :
"java.util.concurrent.locks.AbstractQueuedSynchronizer$ConditionObject",
        "nativeMethod" : false
      }, {
        "methodName" : "poll",
        "fileName" : "LinkedBlockingQueue.java",
        "lineNumber" : 467,
        "className" : "java.util.concurrent.LinkedBlockingQueue",
        "nativeMethod" : false
      }, {
        "methodName" : "getTask",
        "fileName" : "ThreadPoolExecutor.java",
        "lineNumber" : 1073,
        "className" : "java.util.concurrent.ThreadPoolExecutor",
        "nativeMethod" : false
      }, {
        "methodName" : "runWorker",
        "fileName" : "ThreadPoolExecutor.java",
        "lineNumber" : 1134,
        "className" : "java.util.concurrent.ThreadPoolExecutor",
        "nativeMethod" : false
      }, {
        "methodName" : "run",
```

```json
      "fileName" : "ThreadPoolExecutor.java",
      "lineNumber" : 624,
      "className" : "java.util.concurrent.ThreadPoolExecutor$Worker",
      "nativeMethod" : false
    }, {
      "methodName" : "run",
      "fileName" : "Thread.java",
      "lineNumber" : 748,
      "className" : "java.lang.Thread",
      "nativeMethod" : false
    } ],
    "lockedMonitors" : [ ],
    "lockedSynchronizers" : [ ],
    "lockInfo" : {
      "className" :
"java.util.concurrent.locks.AbstractQueuedSynchronizer$ConditionObject",
      "identityHashCode" : 1683877275
    }
  }, {
    "threadName" : "HikariPool-13 housekeeper",
    "threadId" : 6417,
    "blockedTime" : -1,
    "blockedCount" : 0,
    "waitedTime" : -1,
    "waitedCount" : 2,
    "lockName" :
"java.util.concurrent.locks.AbstractQueuedSynchronizer$ConditionObject@6552a1d0",
    "lockOwnerId" : -1,
    "inNative" : false,
    "suspended" : false,
    "threadState" : "TIMED_WAITING",
    "stackTrace" : [ {
      "methodName" : "park",
      "fileName" : "Unsafe.java",
      "lineNumber" : -2,
      "className" : "sun.misc.Unsafe",
      "nativeMethod" : true
    }, {
      "methodName" : "parkNanos",
      "fileName" : "LockSupport.java",
      "lineNumber" : 215,
      "className" : "java.util.concurrent.locks.LockSupport",
      "nativeMethod" : false
    }, {
      "methodName" : "awaitNanos",
      "fileName" : "AbstractQueuedSynchronizer.java",
      "lineNumber" : 2078,
      "className" :
"java.util.concurrent.locks.AbstractQueuedSynchronizer$ConditionObject",
      "nativeMethod" : false
    }, {
```

```
      "methodName" : "take",
      "fileName" : "ScheduledThreadPoolExecutor.java",
      "lineNumber" : 1093,
      "className" :
"java.util.concurrent.ScheduledThreadPoolExecutor$DelayedWorkQueue",
      "nativeMethod" : false
    }, {
      "methodName" : "take",
      "fileName" : "ScheduledThreadPoolExecutor.java",
      "lineNumber" : 809,
      "className" :
"java.util.concurrent.ScheduledThreadPoolExecutor$DelayedWorkQueue",
      "nativeMethod" : false
    }, {
      "methodName" : "getTask",
      "fileName" : "ThreadPoolExecutor.java",
      "lineNumber" : 1074,
      "className" : "java.util.concurrent.ThreadPoolExecutor",
      "nativeMethod" : false
    }, {
      "methodName" : "runWorker",
      "fileName" : "ThreadPoolExecutor.java",
      "lineNumber" : 1134,
      "className" : "java.util.concurrent.ThreadPoolExecutor",
      "nativeMethod" : false
    }, {
      "methodName" : "run",
      "fileName" : "ThreadPoolExecutor.java",
      "lineNumber" : 624,
      "className" : "java.util.concurrent.ThreadPoolExecutor$Worker",
      "nativeMethod" : false
    }, {
      "methodName" : "run",
      "fileName" : "Thread.java",
      "lineNumber" : 748,
      "className" : "java.lang.Thread",
      "nativeMethod" : false
    } ],
    "lockedMonitors" : [ ],
    "lockedSynchronizers" : [ ],
    "lockInfo" : {
      "className" :
"java.util.concurrent.locks.AbstractQueuedSynchronizer$ConditionObject",
      "identityHashCode" : 1699914192
    }
  } ]
}
```

23.1.1. Response Structure

The response contains details of the JVM's threads. The following table describes the structure of the response:

Path	Type	Description
`threads`	`Array`	JVM's threads.
`threads.[].blockedCount`	`Number`	Total number of times that the thread has been blocked.
`threads.[].blockedTime`	`Number`	Time in milliseconds that the thread has spent blocked. -1 if thread contention monitoring is disabled.
`threads.[].daemon`	`Boolean`	Whether the thread is a daemon thread. Only available on Java 9 or later.
`threads.[].inNative`	`Boolean`	Whether the thread is executing native code.
`threads.[].lockName`	`String`	Description of the object on which the thread is blocked, if any.
`threads.[].lockInfo`	`Object`	Object for which the thread is blocked waiting.
`threads.[].lockInfo.className`	`String`	Fully qualified class name of the lock object.
`threads.[].lockInfo.identityHashCode`	`Number`	Identity hash code of the lock object.
`threads.[].lockedMonitors`	`Array`	Monitors locked by this thread, if any
`threads.[].lockedMonitors.[].className`	`String`	Class name of the lock object.
`threads.[].lockedMonitors.[].identityHashCode`	`Number`	Identity hash code of the lock object.
`threads.[].lockedMonitors.[].lockedStackDepth`	`Number`	Stack depth where the monitor was locked.
`threads.[].lockedMonitors.[].lockedStackFrame`	`Object`	Stack frame that locked the monitor.
`threads.[].lockedSynchronizers`	`Array`	Synchronizers locked by this thread.
`threads.[].lockedSynchronizers.[].className`	`String`	Class name of the locked synchronizer.

Path	Type	Description
threads.[].lockedSynchronizers.[].identityHashCode	Number	Identity hash code of the locked synchronizer.
threads.[].lockOwnerId	Number	ID of the thread that owns the object on which the thread is blocked. -1 if the thread is not blocked.
threads.[].lockOwnerName	String	Name of the thread that owns the object on which the thread is blocked, if any.
threads.[].priority	Number	Priority of the thread. Only available on Java 9 or later.
threads.[].stackTrace	Array	Stack trace of the thread.
threads.[].stackTrace.[].classLoaderName	String	Name of the class loader of the class that contains the execution point identified by this entry, if any. Only available on Java 9 or later.
threads.[].stackTrace.[].className	String	Name of the class that contains the execution point identified by this entry.
threads.[].stackTrace.[].fileName	String	Name of the source file that contains the execution point identified by this entry, if any.
threads.[].stackTrace.[].lineNumber	Number	Line number of the execution point identified by this entry. Negative if unknown.
threads.[].stackTrace.[].methodName	String	Name of the method.
threads.[].stackTrace.[].moduleName	String	Name of the module that contains the execution point identified by this entry, if any. Only available on Java 9 or later.
threads.[].stackTrace.[].moduleVersion	String	Version of the module that contains the execution point identified by this entry, if any. Only available on Java 9 or later.
threads.[].stackTrace.[].nativeMethod	Boolean	Whether the execution point is a native method.
threads.[].suspended	Boolean	Whether the thread is suspended.

Path	Type	Description
`threads.[].threadId`	`Number`	ID of the thread.
`threads.[].threadName`	`String`	Name of the thread.
`threads.[].threadState`	`String`	State of the thread (`NEW`, `RUNNABLE`, `BLOCKED`, `WAITING`, `TIMED_WAITING`, `TERMINATED`).
`threads.[].waitedCount`	`Number`	Total number of times that the thread has waited for notification.
`threads.[].waitedTime`	`Number`	Time in milliseconds that the thread has spent waiting. -1 if thread contention monitoring is disabled

23.2. Retrieving the Thread Dump as Text

To retrieve the thread dump as text, make a `GET` request to `/actuator/threaddump` that accepts `text/plain`, as shown in the following curl-based example:

```
$ curl 'http://localhost:8080/actuator/threaddump' -i -X GET \
    -H 'Accept: text/plain'
```

The resulting response is similar to the following:

```
HTTP/1.1 200 OK
Content-Type: text/plain;charset=UTF-8
Content-Length: 83345

2020-06-11 22:54:07
Full thread dump OpenJDK 64-Bit Server VM (25.252-b09 mixed mode):

"HikariPool-13 connection adder" - Thread t@6418
   java.lang.Thread.State: TIMED_WAITING
    at sun.misc.Unsafe.park(Native Method)
    - parking to wait for <645ded9b> (a
java.util.concurrent.locks.AbstractQueuedSynchronizer$ConditionObject)
    at java.util.concurrent.locks.LockSupport.parkNanos(LockSupport.java:215)
    at
java.util.concurrent.locks.AbstractQueuedSynchronizer$ConditionObject.awaitNanos(Abstr
actQueuedSynchronizer.java:2078)
    at java.util.concurrent.LinkedBlockingQueue.poll(LinkedBlockingQueue.java:467)
    at java.util.concurrent.ThreadPoolExecutor.getTask(ThreadPoolExecutor.java:1073)
    at java.util.concurrent.ThreadPoolExecutor.runWorker(ThreadPoolExecutor.java:1134)
    at java.util.concurrent.ThreadPoolExecutor$Worker.run(ThreadPoolExecutor.java:624)
    at java.lang.Thread.run(Thread.java:748)
```

```
    Locked ownable synchronizers:
     - None

"HikariPool-13 housekeeper" - Thread t@6417
    java.lang.Thread.State: TIMED_WAITING
     at sun.misc.Unsafe.park(Native Method)
     - parking to wait for <6552a1d0> (a
java.util.concurrent.locks.AbstractQueuedSynchronizer$ConditionObject)
     at java.util.concurrent.locks.LockSupport.parkNanos(LockSupport.java:215)
     at
java.util.concurrent.locks.AbstractQueuedSynchronizer$ConditionObject.awaitNanos(Abstr
actQueuedSynchronizer.java:2078)
     at
java.util.concurrent.ScheduledThreadPoolExecutor$DelayedWorkQueue.take(ScheduledThread
PoolExecutor.java:1093)
     at
java.util.concurrent.ScheduledThreadPoolExecutor$DelayedWorkQueue.take(ScheduledThread
PoolExecutor.java:809)
     at java.util.concurrent.ThreadPoolExecutor.getTask(ThreadPoolExecutor.java:1074)
     at java.util.concurrent.ThreadPoolExecutor.runWorker(ThreadPoolExecutor.java:1134)
     at java.util.concurrent.ThreadPoolExecutor$Worker.run(ThreadPoolExecutor.java:624)
     at java.lang.Thread.run(Thread.java:748)

    Locked ownable synchronizers:
     - None

"Keep-Alive-Timer" - Thread t@6204
    java.lang.Thread.State: TIMED_WAITING
     at java.lang.Thread.sleep(Native Method)
     at sun.net.www.http.KeepAliveCache.run(KeepAliveCache.java:172)
     at java.lang.Thread.run(Thread.java:748)

    Locked ownable synchronizers:
     - None

"reactor-http-epoll-8" - Thread t@5985
    java.lang.Thread.State: RUNNABLE
     at io.netty.channel.epoll.Native.epollWait(Native Method)
     at io.netty.channel.epoll.Native.epollWait(Native.java:148)
     at io.netty.channel.epoll.Native.epollWait(Native.java:141)
     at
io.netty.channel.epoll.EpollEventLoop.epollWaitNoTimerChange(EpollEventLoop.java:290)
     at io.netty.channel.epoll.EpollEventLoop.run(EpollEventLoop.java:347)
     at
io.netty.util.concurrent.SingleThreadEventExecutor$4.run(SingleThreadEventExecutor.jav
a:989)
     at io.netty.util.internal.ThreadExecutorMap$2.run(ThreadExecutorMap.java:74)
     at
io.netty.util.concurrent.FastThreadLocalRunnable.run(FastThreadLocalRunnable.java:30)
     at java.lang.Thread.run(Thread.java:748)
```

```
    Locked ownable synchronizers:
     - None

"reactor-http-epoll-7" - Thread t@5984
    java.lang.Thread.State: RUNNABLE
     at io.netty.channel.epoll.Native.epollWait(Native Method)
     at io.netty.channel.epoll.Native.epollWait(Native.java:148)
     at io.netty.channel.epoll.Native.epollWait(Native.java:141)
     at
io.netty.channel.epoll.EpollEventLoop.epollWaitNoTimerChange(EpollEventLoop.java:290)
     at io.netty.channel.epoll.EpollEventLoop.run(EpollEventLoop.java:347)
     at
io.netty.util.concurrent.SingleThreadEventExecutor$4.run(SingleThreadEventExecutor.jav
a:989)
     at io.netty.util.internal.ThreadExecutorMap$2.run(ThreadExecutorMap.java:74)
     at
io.netty.util.concurrent.FastThreadLocalRunnable.run(FastThreadLocalRunnable.java:30)
     at java.lang.Thread.run(Thread.java:748)

    Locked ownable synchronizers:
     - None

"reactor-http-epoll-6" - Thread t@5983
    java.lang.Thread.State: RUNNABLE
     at io.netty.channel.epoll.Native.epollWait(Native Method)
     at io.netty.channel.epoll.Native.epollWait(Native.java:148)
     at io.netty.channel.epoll.Native.epollWait(Native.java:141)
     at
io.netty.channel.epoll.EpollEventLoop.epollWaitNoTimerChange(EpollEventLoop.java:290)
     at io.netty.channel.epoll.EpollEventLoop.run(EpollEventLoop.java:347)
     at
io.netty.util.concurrent.SingleThreadEventExecutor$4.run(SingleThreadEventExecutor.jav
a:989)
     at io.netty.util.internal.ThreadExecutorMap$2.run(ThreadExecutorMap.java:74)
     at
io.netty.util.concurrent.FastThreadLocalRunnable.run(FastThreadLocalRunnable.java:30)
     at java.lang.Thread.run(Thread.java:748)

    Locked ownable synchronizers:
     - None

"reactor-http-epoll-5" - Thread t@5982
    java.lang.Thread.State: RUNNABLE
     at io.netty.channel.epoll.Native.epollWait(Native Method)
     at io.netty.channel.epoll.Native.epollWait(Native.java:148)
     at io.netty.channel.epoll.Native.epollWait(Native.java:141)
     at
io.netty.channel.epoll.EpollEventLoop.epollWaitNoTimerChange(EpollEventLoop.java:290)
     at io.netty.channel.epoll.EpollEventLoop.run(EpollEventLoop.java:347)
     at
```

```
io.netty.util.concurrent.SingleThreadEventExecutor$4.run(SingleThreadEventExecutor.jav
a:989)
    at io.netty.util.internal.ThreadExecutorMap$2.run(ThreadExecutorMap.java:74)
    at
io.netty.util.concurrent.FastThreadLocalRunnable.run(FastThreadLocalRunnable.java:30)
    at java.lang.Thread.run(Thread.java:748)

    Locked ownable synchronizers:
     - None

"reactor-http-epoll-4" - Thread t@5981
   java.lang.Thread.State: RUNNABLE
    at io.netty.channel.epoll.Native.epollWait(Native Method)
    at io.netty.channel.epoll.Native.epollWait(Native.java:148)
    at io.netty.channel.epoll.Native.epollWait(Native.java:141)
    at
io.netty.channel.epoll.EpollEventLoop.epollWaitNoTimerChange(EpollEventLoop.java:290)
    at io.netty.channel.epoll.EpollEventLoop.run(EpollEventLoop.java:347)
    at
io.netty.util.concurrent.SingleThreadEventExecutor$4.run(SingleThreadEventExecutor.jav
a:989)
    at io.netty.util.internal.ThreadExecutorMap$2.run(ThreadExecutorMap.java:74)
    at
io.netty.util.concurrent.FastThreadLocalRunnable.run(FastThreadLocalRunnable.java:30)
    at java.lang.Thread.run(Thread.java:748)

    Locked ownable synchronizers:
     - None

"reactor-http-epoll-3" - Thread t@5980
   java.lang.Thread.State: RUNNABLE
    at io.netty.channel.epoll.Native.epollWait(Native Method)
    at io.netty.channel.epoll.Native.epollWait(Native.java:148)
    at io.netty.channel.epoll.Native.epollWait(Native.java:141)
    at
io.netty.channel.epoll.EpollEventLoop.epollWaitNoTimerChange(EpollEventLoop.java:290)
    at io.netty.channel.epoll.EpollEventLoop.run(EpollEventLoop.java:347)
    at
io.netty.util.concurrent.SingleThreadEventExecutor$4.run(SingleThreadEventExecutor.jav
a:989)
    at io.netty.util.internal.ThreadExecutorMap$2.run(ThreadExecutorMap.java:74)
    at
io.netty.util.concurrent.FastThreadLocalRunnable.run(FastThreadLocalRunnable.java:30)
    at java.lang.Thread.run(Thread.java:748)

    Locked ownable synchronizers:
     - None

"reactor-http-epoll-2" - Thread t@5979
   java.lang.Thread.State: RUNNABLE
    at io.netty.channel.epoll.Native.epollWait(Native Method)
```

```
    at io.netty.channel.epoll.Native.epollWait(Native.java:148)
    at io.netty.channel.epoll.Native.epollWait(Native.java:141)
    at
io.netty.channel.epoll.EpollEventLoop.epollWaitNoTimerChange(EpollEventLoop.java:290)
    at io.netty.channel.epoll.EpollEventLoop.run(EpollEventLoop.java:347)
    at
io.netty.util.concurrent.SingleThreadEventExecutor$4.run(SingleThreadEventExecutor.jav
a:989)
    at io.netty.util.internal.ThreadExecutorMap$2.run(ThreadExecutorMap.java:74)
    at
io.netty.util.concurrent.FastThreadLocalRunnable.run(FastThreadLocalRunnable.java:30)
    at java.lang.Thread.run(Thread.java:748)

    Locked ownable synchronizers:
     - None

"reactor-http-epoll-1" - Thread t@5978
    java.lang.Thread.State: RUNNABLE
    at io.netty.channel.epoll.Native.epollWait(Native Method)
    at io.netty.channel.epoll.Native.epollWait(Native.java:148)
    at io.netty.channel.epoll.Native.epollWait(Native.java:141)
    at
io.netty.channel.epoll.EpollEventLoop.epollWaitNoTimerChange(EpollEventLoop.java:290)
    at io.netty.channel.epoll.EpollEventLoop.run(EpollEventLoop.java:347)
    at
io.netty.util.concurrent.SingleThreadEventExecutor$4.run(SingleThreadEventExecutor.jav
a:989)
    at io.netty.util.internal.ThreadExecutorMap$2.run(ThreadExecutorMap.java:74)
    at
io.netty.util.concurrent.FastThreadLocalRunnable.run(FastThreadLocalRunnable.java:30)
    at java.lang.Thread.run(Thread.java:748)

    Locked ownable synchronizers:
     - None

"boundedElastic-2" - Thread t@5961
    java.lang.Thread.State: WAITING
    at sun.misc.Unsafe.park(Native Method)
    - parking to wait for <3b1bd1c> (a
java.util.concurrent.locks.AbstractQueuedSynchronizer$ConditionObject)
    at java.util.concurrent.locks.LockSupport.park(LockSupport.java:175)
    at
java.util.concurrent.locks.AbstractQueuedSynchronizer$ConditionObject.await(AbstractQu
euedSynchronizer.java:2039)
    at
java.util.concurrent.ScheduledThreadPoolExecutor$DelayedWorkQueue.take(ScheduledThread
PoolExecutor.java:1081)
    at
java.util.concurrent.ScheduledThreadPoolExecutor$DelayedWorkQueue.take(ScheduledThread
PoolExecutor.java:809)
    at java.util.concurrent.ThreadPoolExecutor.getTask(ThreadPoolExecutor.java:1074)
```

```
       at java.util.concurrent.ThreadPoolExecutor.runWorker(ThreadPoolExecutor.java:1134)
       at java.util.concurrent.ThreadPoolExecutor$Worker.run(ThreadPoolExecutor.java:624)
       at java.lang.Thread.run(Thread.java:748)

    Locked ownable synchronizers:
     - None

"nioEventLoopGroup-10-1" - Thread t@5903
    java.lang.Thread.State: RUNNABLE
      at sun.nio.ch.EPollArrayWrapper.epollWait(Native Method)
      at sun.nio.ch.EPollArrayWrapper.poll(EPollArrayWrapper.java:269)
      at sun.nio.ch.EPollSelectorImpl.doSelect(EPollSelectorImpl.java:93)
      at sun.nio.ch.SelectorImpl.lockAndDoSelect(SelectorImpl.java:86)
      - locked <4bab609> (a io.netty.channel.nio.SelectedSelectionKeySet)
      - locked <39b43e74> (a java.util.Collections$UnmodifiableSet)
      - locked <320e2dec> (a sun.nio.ch.EPollSelectorImpl)
      at sun.nio.ch.SelectorImpl.select(SelectorImpl.java:97)
      at sun.nio.ch.SelectorImpl.select(SelectorImpl.java:101)
      at
io.netty.channel.nio.SelectedSelectionKeySetSelector.select(SelectedSelectionKeySetSel
ector.java:68)
      at io.netty.channel.nio.NioEventLoop.select(NioEventLoop.java:803)
      at io.netty.channel.nio.NioEventLoop.run(NioEventLoop.java:457)
      at
io.netty.util.concurrent.SingleThreadEventExecutor$4.run(SingleThreadEventExecutor.jav
a:989)
      at io.netty.util.internal.ThreadExecutorMap$2.run(ThreadExecutorMap.java:74)
      at
io.netty.util.concurrent.FastThreadLocalRunnable.run(FastThreadLocalRunnable.java:30)
      at java.lang.Thread.run(Thread.java:748)

    Locked ownable synchronizers:
     - None

"nioEventLoopGroup-8-1" - Thread t@5882
    java.lang.Thread.State: RUNNABLE
      at sun.nio.ch.EPollArrayWrapper.epollWait(Native Method)
      at sun.nio.ch.EPollArrayWrapper.poll(EPollArrayWrapper.java:269)
      at sun.nio.ch.EPollSelectorImpl.doSelect(EPollSelectorImpl.java:93)
      at sun.nio.ch.SelectorImpl.lockAndDoSelect(SelectorImpl.java:86)
      - locked <42a2565c> (a io.netty.channel.nio.SelectedSelectionKeySet)
      - locked <1379baff> (a java.util.Collections$UnmodifiableSet)
      - locked <b26617a> (a sun.nio.ch.EPollSelectorImpl)
      at sun.nio.ch.SelectorImpl.select(SelectorImpl.java:97)
      at sun.nio.ch.SelectorImpl.select(SelectorImpl.java:101)
      at
io.netty.channel.nio.SelectedSelectionKeySetSelector.select(SelectedSelectionKeySetSel
ector.java:68)
      at io.netty.channel.nio.NioEventLoop.select(NioEventLoop.java:803)
      at io.netty.channel.nio.NioEventLoop.run(NioEventLoop.java:457)
      at
```

```
io.netty.util.concurrent.SingleThreadEventExecutor$4.run(SingleThreadEventExecutor.jav
a:989)
    at io.netty.util.internal.ThreadExecutorMap$2.run(ThreadExecutorMap.java:74)
    at
io.netty.util.concurrent.FastThreadLocalRunnable.run(FastThreadLocalRunnable.java:30)
    at java.lang.Thread.run(Thread.java:748)

    Locked ownable synchronizers:
     - None

"nioEventLoopGroup-6-1" - Thread t@5861
    java.lang.Thread.State: RUNNABLE
    at sun.nio.ch.EPollArrayWrapper.epollWait(Native Method)
    at sun.nio.ch.EPollArrayWrapper.poll(EPollArrayWrapper.java:269)
    at sun.nio.ch.EPollSelectorImpl.doSelect(EPollSelectorImpl.java:93)
    at sun.nio.ch.SelectorImpl.lockAndDoSelect(SelectorImpl.java:86)
    - locked <48044cbf> (a io.netty.channel.nio.SelectedSelectionKeySet)
    - locked <18c4e355> (a java.util.Collections$UnmodifiableSet)
    - locked <46b41cf0> (a sun.nio.ch.EPollSelectorImpl)
    at sun.nio.ch.SelectorImpl.select(SelectorImpl.java:97)
    at sun.nio.ch.SelectorImpl.select(SelectorImpl.java:101)
    at
io.netty.channel.nio.SelectedSelectionKeySetSelector.select(SelectedSelectionKeySetSel
ector.java:68)
    at io.netty.channel.nio.NioEventLoop.select(NioEventLoop.java:803)
    at io.netty.channel.nio.NioEventLoop.run(NioEventLoop.java:457)
    at
io.netty.util.concurrent.SingleThreadEventExecutor$4.run(SingleThreadEventExecutor.jav
a:989)
    at io.netty.util.internal.ThreadExecutorMap$2.run(ThreadExecutorMap.java:74)
    at
io.netty.util.concurrent.FastThreadLocalRunnable.run(FastThreadLocalRunnable.java:30)
    at java.lang.Thread.run(Thread.java:748)

    Locked ownable synchronizers:
     - None

"boundedElastic-1" - Thread t@5418
    java.lang.Thread.State: WAITING
    at sun.misc.Unsafe.park(Native Method)
    - parking to wait for <57327ad9> (a
java.util.concurrent.locks.AbstractQueuedSynchronizer$ConditionObject)
    at java.util.concurrent.locks.LockSupport.park(LockSupport.java:175)
    at
java.util.concurrent.locks.AbstractQueuedSynchronizer$ConditionObject.await(AbstractQu
euedSynchronizer.java:2039)
    at
java.util.concurrent.ScheduledThreadPoolExecutor$DelayedWorkQueue.take(ScheduledThread
PoolExecutor.java:1081)
    at
java.util.concurrent.ScheduledThreadPoolExecutor$DelayedWorkQueue.take(ScheduledThread
```

```
PoolExecutor.java:809)
    at java.util.concurrent.ThreadPoolExecutor.getTask(ThreadPoolExecutor.java:1074)
    at java.util.concurrent.ThreadPoolExecutor.runWorker(ThreadPoolExecutor.java:1134)
    at java.util.concurrent.ThreadPoolExecutor$Worker.run(ThreadPoolExecutor.java:624)
    at java.lang.Thread.run(Thread.java:748)

    Locked ownable synchronizers:
     - None

"nioEventLoopGroup-4-1" - Thread t@4672
    java.lang.Thread.State: RUNNABLE
    at sun.nio.ch.EPollArrayWrapper.epollWait(Native Method)
    at sun.nio.ch.EPollArrayWrapper.poll(EPollArrayWrapper.java:269)
    at sun.nio.ch.EPollSelectorImpl.doSelect(EPollSelectorImpl.java:93)
    at sun.nio.ch.SelectorImpl.lockAndDoSelect(SelectorImpl.java:86)
    - locked <7ea188ed> (a io.netty.channel.nio.SelectedSelectionKeySet)
    - locked <14aa5232> (a java.util.Collections$UnmodifiableSet)
    - locked <2bcbc5b9> (a sun.nio.ch.EPollSelectorImpl)
    at sun.nio.ch.SelectorImpl.select(SelectorImpl.java:97)
    at sun.nio.ch.SelectorImpl.select(SelectorImpl.java:101)
    at
io.netty.channel.nio.SelectedSelectionKeySetSelector.select(SelectedSelectionKeySetSel
ector.java:68)
    at io.netty.channel.nio.NioEventLoop.select(NioEventLoop.java:803)
    at io.netty.channel.nio.NioEventLoop.run(NioEventLoop.java:457)
    at
io.netty.util.concurrent.SingleThreadEventExecutor$4.run(SingleThreadEventExecutor.jav
a:989)
    at io.netty.util.internal.ThreadExecutorMap$2.run(ThreadExecutorMap.java:74)
    at
io.netty.util.concurrent.FastThreadLocalRunnable.run(FastThreadLocalRunnable.java:30)
    at java.lang.Thread.run(Thread.java:748)

    Locked ownable synchronizers:
     - None

"nioEventLoopGroup-2-1" - Thread t@4009
    java.lang.Thread.State: RUNNABLE
    at sun.nio.ch.EPollArrayWrapper.epollWait(Native Method)
    at sun.nio.ch.EPollArrayWrapper.poll(EPollArrayWrapper.java:269)
    at sun.nio.ch.EPollSelectorImpl.doSelect(EPollSelectorImpl.java:93)
    at sun.nio.ch.SelectorImpl.lockAndDoSelect(SelectorImpl.java:86)
    - locked <4d7e1fac> (a io.netty.channel.nio.SelectedSelectionKeySet)
    - locked <3fea100e> (a java.util.Collections$UnmodifiableSet)
    - locked <7997ee03> (a sun.nio.ch.EPollSelectorImpl)
    at sun.nio.ch.SelectorImpl.select(SelectorImpl.java:97)
    at sun.nio.ch.SelectorImpl.select(SelectorImpl.java:101)
    at
io.netty.channel.nio.SelectedSelectionKeySetSelector.select(SelectedSelectionKeySetSel
ector.java:68)
    at io.netty.channel.nio.NioEventLoop.select(NioEventLoop.java:803)
```

```
    at io.netty.channel.nio.NioEventLoop.run(NioEventLoop.java:457)
    at
io.netty.util.concurrent.SingleThreadEventExecutor$4.run(SingleThreadEventExecutor.jav
a:989)
    at io.netty.util.internal.ThreadExecutorMap$2.run(ThreadExecutorMap.java:74)
    at
io.netty.util.concurrent.FastThreadLocalRunnable.run(FastThreadLocalRunnable.java:30)
    at java.lang.Thread.run(Thread.java:748)


  Locked ownable synchronizers:
    - None

"boundedElastic-evictor-1" - Thread t@2538
   java.lang.Thread.State: TIMED_WAITING
    at sun.misc.Unsafe.park(Native Method)
    - parking to wait for <1ba9af65> (a
java.util.concurrent.locks.AbstractQueuedSynchronizer$ConditionObject)
    at java.util.concurrent.locks.LockSupport.parkNanos(LockSupport.java:215)
    at
java.util.concurrent.locks.AbstractQueuedSynchronizer$ConditionObject.awaitNanos(Abstr
actQueuedSynchronizer.java:2078)
    at
java.util.concurrent.ScheduledThreadPoolExecutor$DelayedWorkQueue.take(ScheduledThread
PoolExecutor.java:1093)
    at
java.util.concurrent.ScheduledThreadPoolExecutor$DelayedWorkQueue.take(ScheduledThread
PoolExecutor.java:809)
    at java.util.concurrent.ThreadPoolExecutor.getTask(ThreadPoolExecutor.java:1074)
    at java.util.concurrent.ThreadPoolExecutor.runWorker(ThreadPoolExecutor.java:1134)
    at java.util.concurrent.ThreadPoolExecutor$Worker.run(ThreadPoolExecutor.java:624)
    at java.lang.Thread.run(Thread.java:748)


  Locked ownable synchronizers:
    - None

"http-nio-auto-7-Acceptor" - Thread t@396
   java.lang.Thread.State: RUNNABLE
    at sun.nio.ch.ServerSocketChannelImpl.accept0(Native Method)
    at sun.nio.ch.ServerSocketChannelImpl.accept(ServerSocketChannelImpl.java:419)
    at sun.nio.ch.ServerSocketChannelImpl.accept(ServerSocketChannelImpl.java:247)
    - locked <73eac4ea> (a java.lang.Object)
    at org.apache.tomcat.util.net.NioEndpoint.serverSocketAccept(NioEndpoint.java:469)
    at org.apache.tomcat.util.net.NioEndpoint.serverSocketAccept(NioEndpoint.java:71)
    at org.apache.tomcat.util.net.Acceptor.run(Acceptor.java:95)
    at java.lang.Thread.run(Thread.java:748)


  Locked ownable synchronizers:
    - None

"http-nio-auto-7-ClientPoller" - Thread t@395
   java.lang.Thread.State: RUNNABLE
```

```
    at sun.nio.ch.EPollArrayWrapper.epollWait(Native Method)
    at sun.nio.ch.EPollArrayWrapper.poll(EPollArrayWrapper.java:269)
    at sun.nio.ch.EPollSelectorImpl.doSelect(EPollSelectorImpl.java:93)
    at sun.nio.ch.SelectorImpl.lockAndDoSelect(SelectorImpl.java:86)
    - locked <4a28bcf> (a sun.nio.ch.Util$3)
    - locked <28d7d60d> (a java.util.Collections$UnmodifiableSet)
    - locked <7e5386f5> (a sun.nio.ch.EPollSelectorImpl)
    at sun.nio.ch.SelectorImpl.select(SelectorImpl.java:97)
    at org.apache.tomcat.util.net.NioEndpoint$Poller.run(NioEndpoint.java:709)
    at java.lang.Thread.run(Thread.java:748)

   Locked ownable synchronizers:
    - None

"http-nio-auto-7-exec-10" - Thread t@394
   java.lang.Thread.State: WAITING
    at sun.misc.Unsafe.park(Native Method)
    - parking to wait for <7d608ba> (a
java.util.concurrent.locks.AbstractQueuedSynchronizer$ConditionObject)
    at java.util.concurrent.locks.LockSupport.park(LockSupport.java:175)
    at
java.util.concurrent.locks.AbstractQueuedSynchronizer$ConditionObject.await(AbstractQu
euedSynchronizer.java:2039)
    at java.util.concurrent.LinkedBlockingQueue.take(LinkedBlockingQueue.java:442)
    at org.apache.tomcat.util.threads.TaskQueue.take(TaskQueue.java:107)
    at org.apache.tomcat.util.threads.TaskQueue.take(TaskQueue.java:33)
    at java.util.concurrent.ThreadPoolExecutor.getTask(ThreadPoolExecutor.java:1074)
    at java.util.concurrent.ThreadPoolExecutor.runWorker(ThreadPoolExecutor.java:1134)
    at java.util.concurrent.ThreadPoolExecutor$Worker.run(ThreadPoolExecutor.java:624)
    at
org.apache.tomcat.util.threads.TaskThread$WrappingRunnable.run(TaskThread.java:61)
    at java.lang.Thread.run(Thread.java:748)

   Locked ownable synchronizers:
    - None

"http-nio-auto-7-exec-9" - Thread t@393
   java.lang.Thread.State: WAITING
    at sun.misc.Unsafe.park(Native Method)
    - parking to wait for <7d608ba> (a
java.util.concurrent.locks.AbstractQueuedSynchronizer$ConditionObject)
    at java.util.concurrent.locks.LockSupport.park(LockSupport.java:175)
    at
java.util.concurrent.locks.AbstractQueuedSynchronizer$ConditionObject.await(AbstractQu
euedSynchronizer.java:2039)
    at java.util.concurrent.LinkedBlockingQueue.take(LinkedBlockingQueue.java:442)
    at org.apache.tomcat.util.threads.TaskQueue.take(TaskQueue.java:107)
    at org.apache.tomcat.util.threads.TaskQueue.take(TaskQueue.java:33)
    at java.util.concurrent.ThreadPoolExecutor.getTask(ThreadPoolExecutor.java:1074)
    at java.util.concurrent.ThreadPoolExecutor.runWorker(ThreadPoolExecutor.java:1134)
    at java.util.concurrent.ThreadPoolExecutor$Worker.run(ThreadPoolExecutor.java:624)
```

```
        at
org.apache.tomcat.util.threads.TaskThread$WrappingRunnable.run(TaskThread.java:61)
        at java.lang.Thread.run(Thread.java:748)

    Locked ownable synchronizers:
      - None

"http-nio-auto-7-exec-8" - Thread t@392
    java.lang.Thread.State: WAITING
      at sun.misc.Unsafe.park(Native Method)
      - parking to wait for <7d608ba> (a
java.util.concurrent.locks.AbstractQueuedSynchronizer$ConditionObject)
      at java.util.concurrent.locks.LockSupport.park(LockSupport.java:175)
      at
java.util.concurrent.locks.AbstractQueuedSynchronizer$ConditionObject.await(AbstractQu
euedSynchronizer.java:2039)
      at java.util.concurrent.LinkedBlockingQueue.take(LinkedBlockingQueue.java:442)
      at org.apache.tomcat.util.threads.TaskQueue.take(TaskQueue.java:107)
      at org.apache.tomcat.util.threads.TaskQueue.take(TaskQueue.java:33)
      at java.util.concurrent.ThreadPoolExecutor.getTask(ThreadPoolExecutor.java:1074)
      at java.util.concurrent.ThreadPoolExecutor.runWorker(ThreadPoolExecutor.java:1134)
      at java.util.concurrent.ThreadPoolExecutor$Worker.run(ThreadPoolExecutor.java:624)
      at
org.apache.tomcat.util.threads.TaskThread$WrappingRunnable.run(TaskThread.java:61)
      at java.lang.Thread.run(Thread.java:748)

    Locked ownable synchronizers:
      - None

"http-nio-auto-7-exec-7" - Thread t@391
    java.lang.Thread.State: WAITING
      at sun.misc.Unsafe.park(Native Method)
      - parking to wait for <7d608ba> (a
java.util.concurrent.locks.AbstractQueuedSynchronizer$ConditionObject)
      at java.util.concurrent.locks.LockSupport.park(LockSupport.java:175)
      at
java.util.concurrent.locks.AbstractQueuedSynchronizer$ConditionObject.await(AbstractQu
euedSynchronizer.java:2039)
      at java.util.concurrent.LinkedBlockingQueue.take(LinkedBlockingQueue.java:442)
      at org.apache.tomcat.util.threads.TaskQueue.take(TaskQueue.java:107)
      at org.apache.tomcat.util.threads.TaskQueue.take(TaskQueue.java:33)
      at java.util.concurrent.ThreadPoolExecutor.getTask(ThreadPoolExecutor.java:1074)
      at java.util.concurrent.ThreadPoolExecutor.runWorker(ThreadPoolExecutor.java:1134)
      at java.util.concurrent.ThreadPoolExecutor$Worker.run(ThreadPoolExecutor.java:624)
      at
org.apache.tomcat.util.threads.TaskThread$WrappingRunnable.run(TaskThread.java:61)
      at java.lang.Thread.run(Thread.java:748)

    Locked ownable synchronizers:
      - None
```

```
"http-nio-auto-7-exec-6" - Thread t@390
   java.lang.Thread.State: WAITING
    at sun.misc.Unsafe.park(Native Method)
    - parking to wait for <7d608ba> (a
java.util.concurrent.locks.AbstractQueuedSynchronizer$ConditionObject)
    at java.util.concurrent.locks.LockSupport.park(LockSupport.java:175)
    at
java.util.concurrent.locks.AbstractQueuedSynchronizer$ConditionObject.await(AbstractQu
euedSynchronizer.java:2039)
    at java.util.concurrent.LinkedBlockingQueue.take(LinkedBlockingQueue.java:442)
    at org.apache.tomcat.util.threads.TaskQueue.take(TaskQueue.java:107)
    at org.apache.tomcat.util.threads.TaskQueue.take(TaskQueue.java:33)
    at java.util.concurrent.ThreadPoolExecutor.getTask(ThreadPoolExecutor.java:1074)
    at java.util.concurrent.ThreadPoolExecutor.runWorker(ThreadPoolExecutor.java:1134)
    at java.util.concurrent.ThreadPoolExecutor$Worker.run(ThreadPoolExecutor.java:624)
    at
org.apache.tomcat.util.threads.TaskThread$WrappingRunnable.run(TaskThread.java:61)
    at java.lang.Thread.run(Thread.java:748)

   Locked ownable synchronizers:
    - None

"http-nio-auto-7-exec-5" - Thread t@389
   java.lang.Thread.State: WAITING
    at sun.misc.Unsafe.park(Native Method)
    - parking to wait for <7d608ba> (a
java.util.concurrent.locks.AbstractQueuedSynchronizer$ConditionObject)
    at java.util.concurrent.locks.LockSupport.park(LockSupport.java:175)
    at
java.util.concurrent.locks.AbstractQueuedSynchronizer$ConditionObject.await(AbstractQu
euedSynchronizer.java:2039)
    at java.util.concurrent.LinkedBlockingQueue.take(LinkedBlockingQueue.java:442)
    at org.apache.tomcat.util.threads.TaskQueue.take(TaskQueue.java:107)
    at org.apache.tomcat.util.threads.TaskQueue.take(TaskQueue.java:33)
    at java.util.concurrent.ThreadPoolExecutor.getTask(ThreadPoolExecutor.java:1074)
    at java.util.concurrent.ThreadPoolExecutor.runWorker(ThreadPoolExecutor.java:1134)
    at java.util.concurrent.ThreadPoolExecutor$Worker.run(ThreadPoolExecutor.java:624)
    at
org.apache.tomcat.util.threads.TaskThread$WrappingRunnable.run(TaskThread.java:61)
    at java.lang.Thread.run(Thread.java:748)

   Locked ownable synchronizers:
    - None

"http-nio-auto-7-exec-4" - Thread t@388
   java.lang.Thread.State: WAITING
    at sun.misc.Unsafe.park(Native Method)
    - parking to wait for <7d608ba> (a
java.util.concurrent.locks.AbstractQueuedSynchronizer$ConditionObject)
    at java.util.concurrent.locks.LockSupport.park(LockSupport.java:175)
    at
```

```
java.util.concurrent.locks.AbstractQueuedSynchronizer$ConditionObject.await(AbstractQu
euedSynchronizer.java:2039)
    at java.util.concurrent.LinkedBlockingQueue.take(LinkedBlockingQueue.java:442)
    at org.apache.tomcat.util.threads.TaskQueue.take(TaskQueue.java:107)
    at org.apache.tomcat.util.threads.TaskQueue.take(TaskQueue.java:33)
    at java.util.concurrent.ThreadPoolExecutor.getTask(ThreadPoolExecutor.java:1074)
    at java.util.concurrent.ThreadPoolExecutor.runWorker(ThreadPoolExecutor.java:1134)
    at java.util.concurrent.ThreadPoolExecutor$Worker.run(ThreadPoolExecutor.java:624)
    at
org.apache.tomcat.util.threads.TaskThread$WrappingRunnable.run(TaskThread.java:61)
    at java.lang.Thread.run(Thread.java:748)

    Locked ownable synchronizers:
    - None

"http-nio-auto-7-exec-3" - Thread t@387
    java.lang.Thread.State: WAITING
    at sun.misc.Unsafe.park(Native Method)
    - parking to wait for <7d608ba> (a
java.util.concurrent.locks.AbstractQueuedSynchronizer$ConditionObject)
    at java.util.concurrent.locks.LockSupport.park(LockSupport.java:175)
    at
java.util.concurrent.locks.AbstractQueuedSynchronizer$ConditionObject.await(AbstractQu
euedSynchronizer.java:2039)
    at java.util.concurrent.LinkedBlockingQueue.take(LinkedBlockingQueue.java:442)
    at org.apache.tomcat.util.threads.TaskQueue.take(TaskQueue.java:107)
    at org.apache.tomcat.util.threads.TaskQueue.take(TaskQueue.java:33)
    at java.util.concurrent.ThreadPoolExecutor.getTask(ThreadPoolExecutor.java:1074)
    at java.util.concurrent.ThreadPoolExecutor.runWorker(ThreadPoolExecutor.java:1134)
    at java.util.concurrent.ThreadPoolExecutor$Worker.run(ThreadPoolExecutor.java:624)
    at
org.apache.tomcat.util.threads.TaskThread$WrappingRunnable.run(TaskThread.java:61)
    at java.lang.Thread.run(Thread.java:748)

    Locked ownable synchronizers:
    - None

"http-nio-auto-7-exec-2" - Thread t@386
    java.lang.Thread.State: WAITING
    at sun.misc.Unsafe.park(Native Method)
    - parking to wait for <7d608ba> (a
java.util.concurrent.locks.AbstractQueuedSynchronizer$ConditionObject)
    at java.util.concurrent.locks.LockSupport.park(LockSupport.java:175)
    at
java.util.concurrent.locks.AbstractQueuedSynchronizer$ConditionObject.await(AbstractQu
euedSynchronizer.java:2039)
    at java.util.concurrent.LinkedBlockingQueue.take(LinkedBlockingQueue.java:442)
    at org.apache.tomcat.util.threads.TaskQueue.take(TaskQueue.java:107)
    at org.apache.tomcat.util.threads.TaskQueue.take(TaskQueue.java:33)
    at java.util.concurrent.ThreadPoolExecutor.getTask(ThreadPoolExecutor.java:1074)
    at java.util.concurrent.ThreadPoolExecutor.runWorker(ThreadPoolExecutor.java:1134)
```

```
        at java.util.concurrent.ThreadPoolExecutor$Worker.run(ThreadPoolExecutor.java:624)
        at
org.apache.tomcat.util.threads.TaskThread$WrappingRunnable.run(TaskThread.java:61)
        at java.lang.Thread.run(Thread.java:748)


    Locked ownable synchronizers:
        - None

"http-nio-auto-7-exec-1" - Thread t@385
    java.lang.Thread.State: WAITING
        at sun.misc.Unsafe.park(Native Method)
        - parking to wait for <7d608ba> (a
java.util.concurrent.locks.AbstractQueuedSynchronizer$ConditionObject)
        at java.util.concurrent.locks.LockSupport.park(LockSupport.java:175)
        at
java.util.concurrent.locks.AbstractQueuedSynchronizer$ConditionObject.await(AbstractQu
euedSynchronizer.java:2039)
        at java.util.concurrent.LinkedBlockingQueue.take(LinkedBlockingQueue.java:442)
        at org.apache.tomcat.util.threads.TaskQueue.take(TaskQueue.java:107)
        at org.apache.tomcat.util.threads.TaskQueue.take(TaskQueue.java:33)
        at java.util.concurrent.ThreadPoolExecutor.getTask(ThreadPoolExecutor.java:1074)
        at java.util.concurrent.ThreadPoolExecutor.runWorker(ThreadPoolExecutor.java:1134)
        at java.util.concurrent.ThreadPoolExecutor$Worker.run(ThreadPoolExecutor.java:624)
        at
org.apache.tomcat.util.threads.TaskThread$WrappingRunnable.run(TaskThread.java:61)
        at java.lang.Thread.run(Thread.java:748)


    Locked ownable synchronizers:
        - None

"http-nio-auto-7-BlockPoller" - Thread t@384
    java.lang.Thread.State: RUNNABLE
        at sun.nio.ch.EPollArrayWrapper.epollWait(Native Method)
        at sun.nio.ch.EPollArrayWrapper.poll(EPollArrayWrapper.java:269)
        at sun.nio.ch.EPollSelectorImpl.doSelect(EPollSelectorImpl.java:93)
        at sun.nio.ch.SelectorImpl.lockAndDoSelect(SelectorImpl.java:86)
        - locked <5b3bd041> (a sun.nio.ch.Util$3)
        - locked <4bd7c41a> (a java.util.Collections$UnmodifiableSet)
        - locked <5d2604d3> (a sun.nio.ch.EPollSelectorImpl)
        at sun.nio.ch.SelectorImpl.select(SelectorImpl.java:97)
        at
org.apache.tomcat.util.net.NioBlockingSelector$BlockPoller.run(NioBlockingSelector.jav
a:313)


    Locked ownable synchronizers:
        - None

"Catalina-utility-2" - Thread t@383
    java.lang.Thread.State: WAITING
        at sun.misc.Unsafe.park(Native Method)
        - parking to wait for <51def2de> (a
```

```
java.util.concurrent.locks.AbstractQueuedSynchronizer$ConditionObject)
    at java.util.concurrent.locks.LockSupport.park(LockSupport.java:175)
    at
java.util.concurrent.locks.AbstractQueuedSynchronizer$ConditionObject.await(AbstractQu
euedSynchronizer.java:2039)
    at
java.util.concurrent.ScheduledThreadPoolExecutor$DelayedWorkQueue.take(ScheduledThread
PoolExecutor.java:1088)
    at
java.util.concurrent.ScheduledThreadPoolExecutor$DelayedWorkQueue.take(ScheduledThread
PoolExecutor.java:809)
    at java.util.concurrent.ThreadPoolExecutor.getTask(ThreadPoolExecutor.java:1074)
    at java.util.concurrent.ThreadPoolExecutor.runWorker(ThreadPoolExecutor.java:1134)
    at java.util.concurrent.ThreadPoolExecutor$Worker.run(ThreadPoolExecutor.java:624)
    at
org.apache.tomcat.util.threads.TaskThread$WrappingRunnable.run(TaskThread.java:61)
    at java.lang.Thread.run(Thread.java:748)

    Locked ownable synchronizers:
    - None

"container-0" - Thread t@382
    java.lang.Thread.State: TIMED_WAITING
    at java.lang.Thread.sleep(Native Method)
    at org.apache.catalina.core.StandardServer.await(StandardServer.java:570)
    at
org.springframework.boot.web.embedded.tomcat.TomcatWebServer$1.run(TomcatWebServer.jav
a:197)

    Locked ownable synchronizers:
    - None

"Catalina-utility-1" - Thread t@381
    java.lang.Thread.State: TIMED_WAITING
    at sun.misc.Unsafe.park(Native Method)
    - parking to wait for <51def2de> (a
java.util.concurrent.locks.AbstractQueuedSynchronizer$ConditionObject)
    at java.util.concurrent.locks.LockSupport.parkNanos(LockSupport.java:215)
    at
java.util.concurrent.locks.AbstractQueuedSynchronizer$ConditionObject.awaitNanos(Abstr
actQueuedSynchronizer.java:2078)
    at
java.util.concurrent.ScheduledThreadPoolExecutor$DelayedWorkQueue.take(ScheduledThread
PoolExecutor.java:1093)
    at
java.util.concurrent.ScheduledThreadPoolExecutor$DelayedWorkQueue.take(ScheduledThread
PoolExecutor.java:809)
    at java.util.concurrent.ThreadPoolExecutor.getTask(ThreadPoolExecutor.java:1074)
    at java.util.concurrent.ThreadPoolExecutor.runWorker(ThreadPoolExecutor.java:1134)
    at java.util.concurrent.ThreadPoolExecutor$Worker.run(ThreadPoolExecutor.java:624)
    at
```

```
org.apache.tomcat.util.threads.TaskThread$WrappingRunnable.run(TaskThread.java:61)
    at java.lang.Thread.run(Thread.java:748)

   Locked ownable synchronizers:
    - None

"secondOne housekeeper" - Thread t@196
   java.lang.Thread.State: TIMED_WAITING
    at sun.misc.Unsafe.park(Native Method)
    - parking to wait for <414e2a28> (a
java.util.concurrent.locks.AbstractQueuedSynchronizer$ConditionObject)
    at java.util.concurrent.locks.LockSupport.parkNanos(LockSupport.java:215)
    at
java.util.concurrent.locks.AbstractQueuedSynchronizer$ConditionObject.awaitNanos(Abstr
actQueuedSynchronizer.java:2078)
    at
java.util.concurrent.ScheduledThreadPoolExecutor$DelayedWorkQueue.take(ScheduledThread
PoolExecutor.java:1093)
    at
java.util.concurrent.ScheduledThreadPoolExecutor$DelayedWorkQueue.take(ScheduledThread
PoolExecutor.java:809)
    at java.util.concurrent.ThreadPoolExecutor.getTask(ThreadPoolExecutor.java:1074)
    at java.util.concurrent.ThreadPoolExecutor.runWorker(ThreadPoolExecutor.java:1134)
    at java.util.concurrent.ThreadPoolExecutor$Worker.run(ThreadPoolExecutor.java:624)
    at java.lang.Thread.run(Thread.java:748)

   Locked ownable synchronizers:
    - None

"parallel-5" - Thread t@166
   java.lang.Thread.State: TIMED_WAITING
    at sun.misc.Unsafe.park(Native Method)
    - parking to wait for <79f30917> (a
java.util.concurrent.locks.AbstractQueuedSynchronizer$ConditionObject)
    at java.util.concurrent.locks.LockSupport.parkNanos(LockSupport.java:215)
    at
java.util.concurrent.locks.AbstractQueuedSynchronizer$ConditionObject.awaitNanos(Abstr
actQueuedSynchronizer.java:2078)
    at
java.util.concurrent.ScheduledThreadPoolExecutor$DelayedWorkQueue.take(ScheduledThread
PoolExecutor.java:1093)
    at
java.util.concurrent.ScheduledThreadPoolExecutor$DelayedWorkQueue.take(ScheduledThread
PoolExecutor.java:809)
    at java.util.concurrent.ThreadPoolExecutor.getTask(ThreadPoolExecutor.java:1074)
    at java.util.concurrent.ThreadPoolExecutor.runWorker(ThreadPoolExecutor.java:1134)
    at java.util.concurrent.ThreadPoolExecutor$Worker.run(ThreadPoolExecutor.java:624)
    at java.lang.Thread.run(Thread.java:748)

   Locked ownable synchronizers:
    - None
```

```
"parallel-6" - Thread t@165
   java.lang.Thread.State: TIMED_WAITING
    at sun.misc.Unsafe.park(Native Method)
    - parking to wait for <5cb27500> (a
java.util.concurrent.locks.AbstractQueuedSynchronizer$ConditionObject)
    at java.util.concurrent.locks.LockSupport.parkNanos(LockSupport.java:215)
    at
java.util.concurrent.locks.AbstractQueuedSynchronizer$ConditionObject.awaitNanos(Abstr
actQueuedSynchronizer.java:2078)
    at
java.util.concurrent.ScheduledThreadPoolExecutor$DelayedWorkQueue.take(ScheduledThread
PoolExecutor.java:1093)
    at
java.util.concurrent.ScheduledThreadPoolExecutor$DelayedWorkQueue.take(ScheduledThread
PoolExecutor.java:809)
    at java.util.concurrent.ThreadPoolExecutor.getTask(ThreadPoolExecutor.java:1074)
    at java.util.concurrent.ThreadPoolExecutor.runWorker(ThreadPoolExecutor.java:1134)
    at java.util.concurrent.ThreadPoolExecutor$Worker.run(ThreadPoolExecutor.java:624)
    at java.lang.Thread.run(Thread.java:748)

   Locked ownable synchronizers:
    - None

"parallel-7" - Thread t@164
   java.lang.Thread.State: TIMED_WAITING
    at sun.misc.Unsafe.park(Native Method)
    - parking to wait for <38017eb1> (a
java.util.concurrent.locks.AbstractQueuedSynchronizer$ConditionObject)
    at java.util.concurrent.locks.LockSupport.parkNanos(LockSupport.java:215)
    at
java.util.concurrent.locks.AbstractQueuedSynchronizer$ConditionObject.awaitNanos(Abstr
actQueuedSynchronizer.java:2078)
    at
java.util.concurrent.ScheduledThreadPoolExecutor$DelayedWorkQueue.take(ScheduledThread
PoolExecutor.java:1093)
    at
java.util.concurrent.ScheduledThreadPoolExecutor$DelayedWorkQueue.take(ScheduledThread
PoolExecutor.java:809)
    at java.util.concurrent.ThreadPoolExecutor.getTask(ThreadPoolExecutor.java:1074)
    at java.util.concurrent.ThreadPoolExecutor.runWorker(ThreadPoolExecutor.java:1134)
    at java.util.concurrent.ThreadPoolExecutor$Worker.run(ThreadPoolExecutor.java:624)
    at java.lang.Thread.run(Thread.java:748)

   Locked ownable synchronizers:
    - None

"parallel-4" - Thread t@163
   java.lang.Thread.State: TIMED_WAITING
    at sun.misc.Unsafe.park(Native Method)
    - parking to wait for <82e0cf3> (a
```

```
java.util.concurrent.locks.AbstractQueuedSynchronizer$ConditionObject)
    at java.util.concurrent.locks.LockSupport.parkNanos(LockSupport.java:215)
    at
java.util.concurrent.locks.AbstractQueuedSynchronizer$ConditionObject.awaitNanos(Abstr
actQueuedSynchronizer.java:2078)
    at
java.util.concurrent.ScheduledThreadPoolExecutor$DelayedWorkQueue.take(ScheduledThread
PoolExecutor.java:1093)
    at
java.util.concurrent.ScheduledThreadPoolExecutor$DelayedWorkQueue.take(ScheduledThread
PoolExecutor.java:809)
    at java.util.concurrent.ThreadPoolExecutor.getTask(ThreadPoolExecutor.java:1074)
    at java.util.concurrent.ThreadPoolExecutor.runWorker(ThreadPoolExecutor.java:1134)
    at java.util.concurrent.ThreadPoolExecutor$Worker.run(ThreadPoolExecutor.java:624)
    at java.lang.Thread.run(Thread.java:748)

   Locked ownable synchronizers:
    - None

"parallel-3" - Thread t@162
   java.lang.Thread.State: TIMED_WAITING
    at sun.misc.Unsafe.park(Native Method)
    - parking to wait for <69740750> (a
java.util.concurrent.locks.AbstractQueuedSynchronizer$ConditionObject)
    at java.util.concurrent.locks.LockSupport.parkNanos(LockSupport.java:215)
    at
java.util.concurrent.locks.AbstractQueuedSynchronizer$ConditionObject.awaitNanos(Abstr
actQueuedSynchronizer.java:2078)
    at
java.util.concurrent.ScheduledThreadPoolExecutor$DelayedWorkQueue.take(ScheduledThread
PoolExecutor.java:1093)
    at
java.util.concurrent.ScheduledThreadPoolExecutor$DelayedWorkQueue.take(ScheduledThread
PoolExecutor.java:809)
    at java.util.concurrent.ThreadPoolExecutor.getTask(ThreadPoolExecutor.java:1074)
    at java.util.concurrent.ThreadPoolExecutor.runWorker(ThreadPoolExecutor.java:1134)
    at java.util.concurrent.ThreadPoolExecutor$Worker.run(ThreadPoolExecutor.java:624)
    at java.lang.Thread.run(Thread.java:748)

   Locked ownable synchronizers:
    - None

"parallel-2" - Thread t@161
   java.lang.Thread.State: TIMED_WAITING
    at sun.misc.Unsafe.park(Native Method)
    - parking to wait for <26a1750b> (a
java.util.concurrent.locks.AbstractQueuedSynchronizer$ConditionObject)
    at java.util.concurrent.locks.LockSupport.parkNanos(LockSupport.java:215)
    at
java.util.concurrent.locks.AbstractQueuedSynchronizer$ConditionObject.awaitNanos(Abstr
actQueuedSynchronizer.java:2078)
```

```
        at
java.util.concurrent.ScheduledThreadPoolExecutor$DelayedWorkQueue.take(ScheduledThread
PoolExecutor.java:1093)
        at
java.util.concurrent.ScheduledThreadPoolExecutor$DelayedWorkQueue.take(ScheduledThread
PoolExecutor.java:809)
        at java.util.concurrent.ThreadPoolExecutor.getTask(ThreadPoolExecutor.java:1074)
        at java.util.concurrent.ThreadPoolExecutor.runWorker(ThreadPoolExecutor.java:1134)
        at java.util.concurrent.ThreadPoolExecutor$Worker.run(ThreadPoolExecutor.java:624)
        at java.lang.Thread.run(Thread.java:748)

    Locked ownable synchronizers:
        - None

"parallel-1" - Thread t@160
    java.lang.Thread.State: TIMED_WAITING
        at sun.misc.Unsafe.park(Native Method)
        - parking to wait for <15667398> (a
java.util.concurrent.locks.AbstractQueuedSynchronizer$ConditionObject)
        at java.util.concurrent.locks.LockSupport.parkNanos(LockSupport.java:215)
        at
java.util.concurrent.locks.AbstractQueuedSynchronizer$ConditionObject.awaitNanos(Abstr
actQueuedSynchronizer.java:2078)
        at
java.util.concurrent.ScheduledThreadPoolExecutor$DelayedWorkQueue.take(ScheduledThread
PoolExecutor.java:1093)
        at
java.util.concurrent.ScheduledThreadPoolExecutor$DelayedWorkQueue.take(ScheduledThread
PoolExecutor.java:809)
        at java.util.concurrent.ThreadPoolExecutor.getTask(ThreadPoolExecutor.java:1074)
        at java.util.concurrent.ThreadPoolExecutor.runWorker(ThreadPoolExecutor.java:1134)
        at java.util.concurrent.ThreadPoolExecutor$Worker.run(ThreadPoolExecutor.java:624)
        at java.lang.Thread.run(Thread.java:748)

    Locked ownable synchronizers:
        - None

"udp-nio-8" - Thread t@159
    java.lang.Thread.State: RUNNABLE
        at sun.nio.ch.EPollArrayWrapper.epollWait(Native Method)
        at sun.nio.ch.EPollArrayWrapper.poll(EPollArrayWrapper.java:269)
        at sun.nio.ch.EPollSelectorImpl.doSelect(EPollSelectorImpl.java:93)
        at sun.nio.ch.SelectorImpl.lockAndDoSelect(SelectorImpl.java:86)
        - locked <3fa045ac> (a
io.micrometer.shaded.io.netty.channel.nio.SelectedSelectionKeySet)
        - locked <3a1c33c1> (a java.util.Collections$UnmodifiableSet)
        - locked <4f9ec78c> (a sun.nio.ch.EPollSelectorImpl)
        at sun.nio.ch.SelectorImpl.select(SelectorImpl.java:97)
        at sun.nio.ch.SelectorImpl.select(SelectorImpl.java:101)
        at
io.micrometer.shaded.io.netty.channel.nio.SelectedSelectionKeySetSelector.select(Selec
```

```
tedSelectionKeySetSelector.java:68)
    at
io.micrometer.shaded.io.netty.channel.nio.NioEventLoop.select(NioEventLoop.java:803)
    at
io.micrometer.shaded.io.netty.channel.nio.NioEventLoop.run(NioEventLoop.java:457)
    at
io.micrometer.shaded.io.netty.util.concurrent.SingleThreadEventExecutor$4.run(SingleTh
readEventExecutor.java:989)
    at
io.micrometer.shaded.io.netty.util.internal.ThreadExecutorMap$2.run(ThreadExecutorMap.
java:74)
    at
io.micrometer.shaded.io.netty.util.concurrent.FastThreadLocalRunnable.run(FastThreadLo
calRunnable.java:30)
    at java.lang.Thread.run(Thread.java:748)

  Locked ownable synchronizers:
    - None

"udp-nio-7" - Thread t@158
   java.lang.Thread.State: RUNNABLE
    at sun.nio.ch.EPollArrayWrapper.epollWait(Native Method)
    at sun.nio.ch.EPollArrayWrapper.poll(EPollArrayWrapper.java:269)
    at sun.nio.ch.EPollSelectorImpl.doSelect(EPollSelectorImpl.java:93)
    at sun.nio.ch.SelectorImpl.lockAndDoSelect(SelectorImpl.java:86)
    - locked <22f34230> (a
io.micrometer.shaded.io.netty.channel.nio.SelectedSelectionKeySet)
    - locked <1fc3fee7> (a java.util.Collections$UnmodifiableSet)
    - locked <441a44e5> (a sun.nio.ch.EPollSelectorImpl)
    at sun.nio.ch.SelectorImpl.select(SelectorImpl.java:97)
    at sun.nio.ch.SelectorImpl.select(SelectorImpl.java:101)
    at
io.micrometer.shaded.io.netty.channel.nio.SelectedSelectionKeySetSelector.select(Selec
tedSelectionKeySetSelector.java:68)
    at
io.micrometer.shaded.io.netty.channel.nio.NioEventLoop.select(NioEventLoop.java:803)
    at
io.micrometer.shaded.io.netty.channel.nio.NioEventLoop.run(NioEventLoop.java:457)
    at
io.micrometer.shaded.io.netty.util.concurrent.SingleThreadEventExecutor$4.run(SingleTh
readEventExecutor.java:989)
    at
io.micrometer.shaded.io.netty.util.internal.ThreadExecutorMap$2.run(ThreadExecutorMap.
java:74)
    at
io.micrometer.shaded.io.netty.util.concurrent.FastThreadLocalRunnable.run(FastThreadLo
calRunnable.java:30)
    at java.lang.Thread.run(Thread.java:748)

  Locked ownable synchronizers:
    - None
```

```
"udp-nio-6" - Thread t@157
   java.lang.Thread.State: RUNNABLE
    at sun.nio.ch.EPollArrayWrapper.epollWait(Native Method)
    at sun.nio.ch.EPollArrayWrapper.poll(EPollArrayWrapper.java:269)
    at sun.nio.ch.EPollSelectorImpl.doSelect(EPollSelectorImpl.java:93)
    at sun.nio.ch.SelectorImpl.lockAndDoSelect(SelectorImpl.java:86)
    - locked <7d81494d> (a
io.micrometer.shaded.io.netty.channel.nio.SelectedSelectionKeySet)
    - locked <455b660f> (a java.util.Collections$UnmodifiableSet)
    - locked <456f9c85> (a sun.nio.ch.EPollSelectorImpl)
    at sun.nio.ch.SelectorImpl.select(SelectorImpl.java:97)
    at sun.nio.ch.SelectorImpl.select(SelectorImpl.java:101)
    at
io.micrometer.shaded.io.netty.channel.nio.SelectedSelectionKeySetSelector.select(Selec
tedSelectionKeySetSelector.java:68)
    at
io.micrometer.shaded.io.netty.channel.nio.NioEventLoop.select(NioEventLoop.java:803)
    at
io.micrometer.shaded.io.netty.channel.nio.NioEventLoop.run(NioEventLoop.java:457)
    at
io.micrometer.shaded.io.netty.util.concurrent.SingleThreadEventExecutor$4.run(SingleTh
readEventExecutor.java:989)
    at
io.micrometer.shaded.io.netty.util.internal.ThreadExecutorMap$2.run(ThreadExecutorMap.
java:74)
    at
io.micrometer.shaded.io.netty.util.concurrent.FastThreadLocalRunnable.run(FastThreadLo
calRunnable.java:30)
    at java.lang.Thread.run(Thread.java:748)

   Locked ownable synchronizers:
    - None

"udp-nio-5" - Thread t@156
   java.lang.Thread.State: RUNNABLE
    at sun.nio.ch.EPollArrayWrapper.epollWait(Native Method)
    at sun.nio.ch.EPollArrayWrapper.poll(EPollArrayWrapper.java:269)
    at sun.nio.ch.EPollSelectorImpl.doSelect(EPollSelectorImpl.java:93)
    at sun.nio.ch.SelectorImpl.lockAndDoSelect(SelectorImpl.java:86)
    - locked <53c4c5a1> (a
io.micrometer.shaded.io.netty.channel.nio.SelectedSelectionKeySet)
    - locked <247835b5> (a java.util.Collections$UnmodifiableSet)
    - locked <3a8d542b> (a sun.nio.ch.EPollSelectorImpl)
    at sun.nio.ch.SelectorImpl.select(SelectorImpl.java:97)
    at sun.nio.ch.SelectorImpl.select(SelectorImpl.java:101)
    at
io.micrometer.shaded.io.netty.channel.nio.SelectedSelectionKeySetSelector.select(Selec
tedSelectionKeySetSelector.java:68)
    at
io.micrometer.shaded.io.netty.channel.nio.NioEventLoop.select(NioEventLoop.java:803)
```

```
    at
io.micrometer.shaded.io.netty.channel.nio.NioEventLoop.run(NioEventLoop.java:457)
    at
io.micrometer.shaded.io.netty.util.concurrent.SingleThreadEventExecutor$4.run(SingleTh
readEventExecutor.java:989)
    at
io.micrometer.shaded.io.netty.util.internal.ThreadExecutorMap$2.run(ThreadExecutorMap.
java:74)
    at
io.micrometer.shaded.io.netty.util.concurrent.FastThreadLocalRunnable.run(FastThreadLo
calRunnable.java:30)
    at java.lang.Thread.run(Thread.java:748)

    Locked ownable synchronizers:
    - None

"udp-nio-4" - Thread t@155
    java.lang.Thread.State: RUNNABLE
    at sun.nio.ch.EPollArrayWrapper.epollWait(Native Method)
    at sun.nio.ch.EPollArrayWrapper.poll(EPollArrayWrapper.java:269)
    at sun.nio.ch.EPollSelectorImpl.doSelect(EPollSelectorImpl.java:93)
    at sun.nio.ch.SelectorImpl.lockAndDoSelect(SelectorImpl.java:86)
    - locked <33f6c4b> (a
io.micrometer.shaded.io.netty.channel.nio.SelectedSelectionKeySet)
    - locked <76234840> (a java.util.Collections$UnmodifiableSet)
    - locked <13931eac> (a sun.nio.ch.EPollSelectorImpl)
    at sun.nio.ch.SelectorImpl.select(SelectorImpl.java:97)
    at sun.nio.ch.SelectorImpl.select(SelectorImpl.java:101)
    at
io.micrometer.shaded.io.netty.channel.nio.SelectedSelectionKeySetSelector.select(Selec
tedSelectionKeySetSelector.java:68)
    at
io.micrometer.shaded.io.netty.channel.nio.NioEventLoop.select(NioEventLoop.java:803)
    at
io.micrometer.shaded.io.netty.channel.nio.NioEventLoop.run(NioEventLoop.java:457)
    at
io.micrometer.shaded.io.netty.util.concurrent.SingleThreadEventExecutor$4.run(SingleTh
readEventExecutor.java:989)
    at
io.micrometer.shaded.io.netty.util.internal.ThreadExecutorMap$2.run(ThreadExecutorMap.
java:74)
    at
io.micrometer.shaded.io.netty.util.concurrent.FastThreadLocalRunnable.run(FastThreadLo
calRunnable.java:30)
    at java.lang.Thread.run(Thread.java:748)

    Locked ownable synchronizers:
    - None

"udp-nio-3" - Thread t@154
    java.lang.Thread.State: RUNNABLE
```

```
    at sun.nio.ch.EPollArrayWrapper.epollWait(Native Method)
    at sun.nio.ch.EPollArrayWrapper.poll(EPollArrayWrapper.java:269)
    at sun.nio.ch.EPollSelectorImpl.doSelect(EPollSelectorImpl.java:93)
    at sun.nio.ch.SelectorImpl.lockAndDoSelect(SelectorImpl.java:86)
    - locked <43ef2cf9> (a
io.micrometer.shaded.io.netty.channel.nio.SelectedSelectionKeySet)
    - locked <3b4a5dfb> (a java.util.Collections$UnmodifiableSet)
    - locked <57c7739a> (a sun.nio.ch.EPollSelectorImpl)
    at sun.nio.ch.SelectorImpl.select(SelectorImpl.java:97)
    at sun.nio.ch.SelectorImpl.select(SelectorImpl.java:101)
    at
io.micrometer.shaded.io.netty.channel.nio.SelectedSelectionKeySetSelector.select(Selec
tedSelectionKeySetSelector.java:68)
    at
io.micrometer.shaded.io.netty.channel.nio.NioEventLoop.select(NioEventLoop.java:803)
    at
io.micrometer.shaded.io.netty.channel.nio.NioEventLoop.run(NioEventLoop.java:457)
    at
io.micrometer.shaded.io.netty.util.concurrent.SingleThreadEventExecutor$4.run(SingleTh
readEventExecutor.java:989)
    at
io.micrometer.shaded.io.netty.util.internal.ThreadExecutorMap$2.run(ThreadExecutorMap.
java:74)
    at
io.micrometer.shaded.io.netty.util.concurrent.FastThreadLocalRunnable.run(FastThreadLo
calRunnable.java:30)
    at java.lang.Thread.run(Thread.java:748)

   Locked ownable synchronizers:
    - None

"udp-nio-2" - Thread t@153
   java.lang.Thread.State: RUNNABLE
    at sun.nio.ch.EPollArrayWrapper.epollWait(Native Method)
    at sun.nio.ch.EPollArrayWrapper.poll(EPollArrayWrapper.java:269)
    at sun.nio.ch.EPollSelectorImpl.doSelect(EPollSelectorImpl.java:93)
    at sun.nio.ch.SelectorImpl.lockAndDoSelect(SelectorImpl.java:86)
    - locked <5caa71b0> (a
io.micrometer.shaded.io.netty.channel.nio.SelectedSelectionKeySet)
    - locked <66980638> (a java.util.Collections$UnmodifiableSet)
    - locked <f542a95> (a sun.nio.ch.EPollSelectorImpl)
    at sun.nio.ch.SelectorImpl.select(SelectorImpl.java:97)
    at sun.nio.ch.SelectorImpl.select(SelectorImpl.java:101)
    at
io.micrometer.shaded.io.netty.channel.nio.SelectedSelectionKeySetSelector.select(Selec
tedSelectionKeySetSelector.java:68)
    at
io.micrometer.shaded.io.netty.channel.nio.NioEventLoop.select(NioEventLoop.java:803)
    at
io.micrometer.shaded.io.netty.channel.nio.NioEventLoop.run(NioEventLoop.java:457)
    at
```

```
io.micrometer.shaded.io.netty.util.concurrent.SingleThreadEventExecutor$4.run(SingleTh
readEventExecutor.java:989)
    at
io.micrometer.shaded.io.netty.util.internal.ThreadExecutorMap$2.run(ThreadExecutorMap.
java:74)
    at
io.micrometer.shaded.io.netty.util.concurrent.FastThreadLocalRunnable.run(FastThreadLo
calRunnable.java:30)
    at java.lang.Thread.run(Thread.java:748)


   Locked ownable synchronizers:
    - None


"udp-nio-1" - Thread t@152
   java.lang.Thread.State: RUNNABLE
    at sun.nio.ch.EPollArrayWrapper.epollWait(Native Method)
    at sun.nio.ch.EPollArrayWrapper.poll(EPollArrayWrapper.java:269)
    at sun.nio.ch.EPollSelectorImpl.doSelect(EPollSelectorImpl.java:93)
    at sun.nio.ch.SelectorImpl.lockAndDoSelect(SelectorImpl.java:86)
    - locked <63e3d346> (a
io.micrometer.shaded.io.netty.channel.nio.SelectedSelectionKeySet)
    - locked <6c4b197b> (a java.util.Collections$UnmodifiableSet)
    - locked <4a447b0c> (a sun.nio.ch.EPollSelectorImpl)
    at sun.nio.ch.SelectorImpl.select(SelectorImpl.java:97)
    at sun.nio.ch.SelectorImpl.select(SelectorImpl.java:101)
    at
io.micrometer.shaded.io.netty.channel.nio.SelectedSelectionKeySetSelector.select(Selec
tedSelectionKeySetSelector.java:68)
    at
io.micrometer.shaded.io.netty.channel.nio.NioEventLoop.select(NioEventLoop.java:803)
    at
io.micrometer.shaded.io.netty.channel.nio.NioEventLoop.run(NioEventLoop.java:457)
    at
io.micrometer.shaded.io.netty.util.concurrent.SingleThreadEventExecutor$4.run(SingleTh
readEventExecutor.java:989)
    at
io.micrometer.shaded.io.netty.util.internal.ThreadExecutorMap$2.run(ThreadExecutorMap.
java:74)
    at
io.micrometer.shaded.io.netty.util.concurrent.FastThreadLocalRunnable.run(FastThreadLo
calRunnable.java:30)
    at java.lang.Thread.run(Thread.java:748)


   Locked ownable synchronizers:
    - None


"sdk-metrics-registry-0" - Thread t@122
   java.lang.Thread.State: TIMED_WAITING
    at sun.misc.Unsafe.park(Native Method)
    - parking to wait for <6d57ac53> (a
java.util.concurrent.locks.AbstractQueuedSynchronizer$ConditionObject)
```

```
    at java.util.concurrent.locks.LockSupport.parkNanos(LockSupport.java:215)
    at
java.util.concurrent.locks.AbstractQueuedSynchronizer$ConditionObject.awaitNanos(Abstr
actQueuedSynchronizer.java:2078)
    at
java.util.concurrent.ScheduledThreadPoolExecutor$DelayedWorkQueue.take(ScheduledThread
PoolExecutor.java:1093)
    at
java.util.concurrent.ScheduledThreadPoolExecutor$DelayedWorkQueue.take(ScheduledThread
PoolExecutor.java:809)
    at java.util.concurrent.ThreadPoolExecutor.getTask(ThreadPoolExecutor.java:1074)
    at java.util.concurrent.ThreadPoolExecutor.runWorker(ThreadPoolExecutor.java:1134)
    at java.util.concurrent.ThreadPoolExecutor$Worker.run(ThreadPoolExecutor.java:624)
    at java.lang.Thread.run(Thread.java:748)

    Locked ownable synchronizers:
    - None

"wavefrontClientSender-0" - Thread t@121
    java.lang.Thread.State: TIMED_WAITING
    at sun.misc.Unsafe.park(Native Method)
    - parking to wait for <2450682e> (a
java.util.concurrent.locks.AbstractQueuedSynchronizer$ConditionObject)
    at java.util.concurrent.locks.LockSupport.parkNanos(LockSupport.java:215)
    at
java.util.concurrent.locks.AbstractQueuedSynchronizer$ConditionObject.awaitNanos(Abstr
actQueuedSynchronizer.java:2078)
    at
java.util.concurrent.ScheduledThreadPoolExecutor$DelayedWorkQueue.take(ScheduledThread
PoolExecutor.java:1093)
    at
java.util.concurrent.ScheduledThreadPoolExecutor$DelayedWorkQueue.take(ScheduledThread
PoolExecutor.java:809)
    at java.util.concurrent.ThreadPoolExecutor.getTask(ThreadPoolExecutor.java:1074)
    at java.util.concurrent.ThreadPoolExecutor.runWorker(ThreadPoolExecutor.java:1134)
    at java.util.concurrent.ThreadPoolExecutor$Worker.run(ThreadPoolExecutor.java:624)
    at java.lang.Thread.run(Thread.java:748)

    Locked ownable synchronizers:
    - None

"PrometheusPushGatewayManager.PushGatewayTaskScheduler-1" - Thread t@103
    java.lang.Thread.State: WAITING
    at sun.misc.Unsafe.park(Native Method)
    - parking to wait for <9744882> (a
java.util.concurrent.locks.AbstractQueuedSynchronizer$ConditionObject)
    at java.util.concurrent.locks.LockSupport.park(LockSupport.java:175)
    at
java.util.concurrent.locks.AbstractQueuedSynchronizer$ConditionObject.await(AbstractQu
euedSynchronizer.java:2039)
    at
```

```
java.util.concurrent.ScheduledThreadPoolExecutor$DelayedWorkQueue.take(ScheduledThread
PoolExecutor.java:1081)
    at
java.util.concurrent.ScheduledThreadPoolExecutor$DelayedWorkQueue.take(ScheduledThread
PoolExecutor.java:809)
    at java.util.concurrent.ThreadPoolExecutor.getTask(ThreadPoolExecutor.java:1074)
    at java.util.concurrent.ThreadPoolExecutor.runWorker(ThreadPoolExecutor.java:1134)
    at java.util.concurrent.ThreadPoolExecutor$Worker.run(ThreadPoolExecutor.java:624)
    at java.lang.Thread.run(Thread.java:748)

   Locked ownable synchronizers:
    - None

"PrometheusPushGatewayManager.PushGatewayTaskScheduler-1" - Thread t@102
   java.lang.Thread.State: WAITING
    at sun.misc.Unsafe.park(Native Method)
    - parking to wait for <b4c07f3> (a
java.util.concurrent.locks.AbstractQueuedSynchronizer$ConditionObject)
    at java.util.concurrent.locks.LockSupport.park(LockSupport.java:175)
    at
java.util.concurrent.locks.AbstractQueuedSynchronizer$ConditionObject.await(AbstractQu
euedSynchronizer.java:2039)
    at
java.util.concurrent.ScheduledThreadPoolExecutor$DelayedWorkQueue.take(ScheduledThread
PoolExecutor.java:1081)
    at
java.util.concurrent.ScheduledThreadPoolExecutor$DelayedWorkQueue.take(ScheduledThread
PoolExecutor.java:809)
    at java.util.concurrent.ThreadPoolExecutor.getTask(ThreadPoolExecutor.java:1074)
    at java.util.concurrent.ThreadPoolExecutor.runWorker(ThreadPoolExecutor.java:1134)
    at java.util.concurrent.ThreadPoolExecutor$Worker.run(ThreadPoolExecutor.java:624)
    at java.lang.Thread.run(Thread.java:748)

   Locked ownable synchronizers:
    - None

"PrometheusPushGatewayManager.PushGatewayTaskScheduler-1" - Thread t@101
   java.lang.Thread.State: WAITING
    at sun.misc.Unsafe.park(Native Method)
    - parking to wait for <2fa80087> (a
java.util.concurrent.locks.AbstractQueuedSynchronizer$ConditionObject)
    at java.util.concurrent.locks.LockSupport.park(LockSupport.java:175)
    at
java.util.concurrent.locks.AbstractQueuedSynchronizer$ConditionObject.await(AbstractQu
euedSynchronizer.java:2039)
    at
java.util.concurrent.ScheduledThreadPoolExecutor$DelayedWorkQueue.take(ScheduledThread
PoolExecutor.java:1081)
    at
java.util.concurrent.ScheduledThreadPoolExecutor$DelayedWorkQueue.take(ScheduledThread
PoolExecutor.java:809)
```

```
    at java.util.concurrent.ThreadPoolExecutor.getTask(ThreadPoolExecutor.java:1074)
    at java.util.concurrent.ThreadPoolExecutor.runWorker(ThreadPoolExecutor.java:1134)
    at java.util.concurrent.ThreadPoolExecutor$Worker.run(ThreadPoolExecutor.java:624)
    at java.lang.Thread.run(Thread.java:748)

   Locked ownable synchronizers:
    - None

"parallel-8" - Thread t@29
   java.lang.Thread.State: WAITING
    at sun.misc.Unsafe.park(Native Method)
    - parking to wait for <24831219> (a
java.util.concurrent.locks.AbstractQueuedSynchronizer$ConditionObject)
    at java.util.concurrent.locks.LockSupport.park(LockSupport.java:175)
    at
java.util.concurrent.locks.AbstractQueuedSynchronizer$ConditionObject.await(AbstractQu
euedSynchronizer.java:2039)
    at
java.util.concurrent.ScheduledThreadPoolExecutor$DelayedWorkQueue.take(ScheduledThread
PoolExecutor.java:1081)
    at
java.util.concurrent.ScheduledThreadPoolExecutor$DelayedWorkQueue.take(ScheduledThread
PoolExecutor.java:809)
    at java.util.concurrent.ThreadPoolExecutor.getTask(ThreadPoolExecutor.java:1074)
    at java.util.concurrent.ThreadPoolExecutor.runWorker(ThreadPoolExecutor.java:1134)
    at java.util.concurrent.ThreadPoolExecutor$Worker.run(ThreadPoolExecutor.java:624)
    at java.lang.Thread.run(Thread.java:748)

   Locked ownable synchronizers:
    - None

"parallel-7" - Thread t@28
   java.lang.Thread.State: WAITING
    at sun.misc.Unsafe.park(Native Method)
    - parking to wait for <2a44f8f9> (a
java.util.concurrent.locks.AbstractQueuedSynchronizer$ConditionObject)
    at java.util.concurrent.locks.LockSupport.park(LockSupport.java:175)
    at
java.util.concurrent.locks.AbstractQueuedSynchronizer$ConditionObject.await(AbstractQu
euedSynchronizer.java:2039)
    at
java.util.concurrent.ScheduledThreadPoolExecutor$DelayedWorkQueue.take(ScheduledThread
PoolExecutor.java:1081)
    at
java.util.concurrent.ScheduledThreadPoolExecutor$DelayedWorkQueue.take(ScheduledThread
PoolExecutor.java:809)
    at java.util.concurrent.ThreadPoolExecutor.getTask(ThreadPoolExecutor.java:1074)
    at java.util.concurrent.ThreadPoolExecutor.runWorker(ThreadPoolExecutor.java:1134)
    at java.util.concurrent.ThreadPoolExecutor$Worker.run(ThreadPoolExecutor.java:624)
    at java.lang.Thread.run(Thread.java:748)
```

```
    Locked ownable synchronizers:
     - None

"parallel-6" - Thread t@27
   java.lang.Thread.State: WAITING
    at sun.misc.Unsafe.park(Native Method)
    - parking to wait for <2e7b7969> (a
java.util.concurrent.locks.AbstractQueuedSynchronizer$ConditionObject)
    at java.util.concurrent.locks.LockSupport.park(LockSupport.java:175)
    at
java.util.concurrent.locks.AbstractQueuedSynchronizer$ConditionObject.await(AbstractQu
euedSynchronizer.java:2039)
    at
java.util.concurrent.ScheduledThreadPoolExecutor$DelayedWorkQueue.take(ScheduledThread
PoolExecutor.java:1081)
    at
java.util.concurrent.ScheduledThreadPoolExecutor$DelayedWorkQueue.take(ScheduledThread
PoolExecutor.java:809)
    at java.util.concurrent.ThreadPoolExecutor.getTask(ThreadPoolExecutor.java:1074)
    at java.util.concurrent.ThreadPoolExecutor.runWorker(ThreadPoolExecutor.java:1134)
    at java.util.concurrent.ThreadPoolExecutor$Worker.run(ThreadPoolExecutor.java:624)
    at java.lang.Thread.run(Thread.java:748)

   Locked ownable synchronizers:
     - None

"parallel-5" - Thread t@26
   java.lang.Thread.State: WAITING
    at sun.misc.Unsafe.park(Native Method)
    - parking to wait for <6b79f2c2> (a
java.util.concurrent.locks.AbstractQueuedSynchronizer$ConditionObject)
    at java.util.concurrent.locks.LockSupport.park(LockSupport.java:175)
    at
java.util.concurrent.locks.AbstractQueuedSynchronizer$ConditionObject.await(AbstractQu
euedSynchronizer.java:2039)
    at
java.util.concurrent.ScheduledThreadPoolExecutor$DelayedWorkQueue.take(ScheduledThread
PoolExecutor.java:1081)
    at
java.util.concurrent.ScheduledThreadPoolExecutor$DelayedWorkQueue.take(ScheduledThread
PoolExecutor.java:809)
    at java.util.concurrent.ThreadPoolExecutor.getTask(ThreadPoolExecutor.java:1074)
    at java.util.concurrent.ThreadPoolExecutor.runWorker(ThreadPoolExecutor.java:1134)
    at java.util.concurrent.ThreadPoolExecutor$Worker.run(ThreadPoolExecutor.java:624)
    at java.lang.Thread.run(Thread.java:748)

   Locked ownable synchronizers:
     - None

"parallel-4" - Thread t@25
   java.lang.Thread.State: WAITING
```

```
    at sun.misc.Unsafe.park(Native Method)
    - parking to wait for <57d6366e> (a
java.util.concurrent.locks.AbstractQueuedSynchronizer$ConditionObject)
    at java.util.concurrent.locks.LockSupport.park(LockSupport.java:175)
    at
java.util.concurrent.locks.AbstractQueuedSynchronizer$ConditionObject.await(AbstractQu
euedSynchronizer.java:2039)
    at
java.util.concurrent.ScheduledThreadPoolExecutor$DelayedWorkQueue.take(ScheduledThread
PoolExecutor.java:1081)
    at
java.util.concurrent.ScheduledThreadPoolExecutor$DelayedWorkQueue.take(ScheduledThread
PoolExecutor.java:809)
    at java.util.concurrent.ThreadPoolExecutor.getTask(ThreadPoolExecutor.java:1074)
    at java.util.concurrent.ThreadPoolExecutor.runWorker(ThreadPoolExecutor.java:1134)
    at java.util.concurrent.ThreadPoolExecutor$Worker.run(ThreadPoolExecutor.java:624)
    at java.lang.Thread.run(Thread.java:748)

  Locked ownable synchronizers:
    - None

"parallel-3" - Thread t@24
    java.lang.Thread.State: WAITING
    at sun.misc.Unsafe.park(Native Method)
    - parking to wait for <5a589f5d> (a
java.util.concurrent.locks.AbstractQueuedSynchronizer$ConditionObject)
    at java.util.concurrent.locks.LockSupport.park(LockSupport.java:175)
    at
java.util.concurrent.locks.AbstractQueuedSynchronizer$ConditionObject.await(AbstractQu
euedSynchronizer.java:2039)
    at
java.util.concurrent.ScheduledThreadPoolExecutor$DelayedWorkQueue.take(ScheduledThread
PoolExecutor.java:1081)
    at
java.util.concurrent.ScheduledThreadPoolExecutor$DelayedWorkQueue.take(ScheduledThread
PoolExecutor.java:809)
    at java.util.concurrent.ThreadPoolExecutor.getTask(ThreadPoolExecutor.java:1074)
    at java.util.concurrent.ThreadPoolExecutor.runWorker(ThreadPoolExecutor.java:1134)
    at java.util.concurrent.ThreadPoolExecutor$Worker.run(ThreadPoolExecutor.java:624)
    at java.lang.Thread.run(Thread.java:748)

  Locked ownable synchronizers:
    - None

"parallel-2" - Thread t@23
    java.lang.Thread.State: WAITING
    at sun.misc.Unsafe.park(Native Method)
    - parking to wait for <2f1d054e> (a
java.util.concurrent.locks.AbstractQueuedSynchronizer$ConditionObject)
    at java.util.concurrent.locks.LockSupport.park(LockSupport.java:175)
    at
```

```
java.util.concurrent.locks.AbstractQueuedSynchronizer$ConditionObject.await(AbstractQu
euedSynchronizer.java:2039)
    at
java.util.concurrent.ScheduledThreadPoolExecutor$DelayedWorkQueue.take(ScheduledThread
PoolExecutor.java:1081)
    at
java.util.concurrent.ScheduledThreadPoolExecutor$DelayedWorkQueue.take(ScheduledThread
PoolExecutor.java:809)
    at java.util.concurrent.ThreadPoolExecutor.getTask(ThreadPoolExecutor.java:1074)
    at java.util.concurrent.ThreadPoolExecutor.runWorker(ThreadPoolExecutor.java:1134)
    at java.util.concurrent.ThreadPoolExecutor$Worker.run(ThreadPoolExecutor.java:624)
    at java.lang.Thread.run(Thread.java:748)

  Locked ownable synchronizers:
    - None

"parallel-1" - Thread t@22
   java.lang.Thread.State: WAITING
    at sun.misc.Unsafe.park(Native Method)
    - parking to wait for <b560d8d> (a
java.util.concurrent.locks.AbstractQueuedSynchronizer$ConditionObject)
    at java.util.concurrent.locks.LockSupport.park(LockSupport.java:175)
    at
java.util.concurrent.locks.AbstractQueuedSynchronizer$ConditionObject.await(AbstractQu
euedSynchronizer.java:2039)
    at
java.util.concurrent.ScheduledThreadPoolExecutor$DelayedWorkQueue.take(ScheduledThread
PoolExecutor.java:1081)
    at
java.util.concurrent.ScheduledThreadPoolExecutor$DelayedWorkQueue.take(ScheduledThread
PoolExecutor.java:809)
    at java.util.concurrent.ThreadPoolExecutor.getTask(ThreadPoolExecutor.java:1074)
    at java.util.concurrent.ThreadPoolExecutor.runWorker(ThreadPoolExecutor.java:1134)
    at java.util.concurrent.ThreadPoolExecutor$Worker.run(ThreadPoolExecutor.java:624)
    at java.lang.Thread.run(Thread.java:748)

  Locked ownable synchronizers:
    - None

"spectator-gauge-polling-0" - Thread t@14
   java.lang.Thread.State: TIMED_WAITING
    at sun.misc.Unsafe.park(Native Method)
    - parking to wait for <690cf385> (a
java.util.concurrent.locks.AbstractQueuedSynchronizer$ConditionObject)
    at java.util.concurrent.locks.LockSupport.parkNanos(LockSupport.java:215)
    at
java.util.concurrent.locks.AbstractQueuedSynchronizer$ConditionObject.awaitNanos(Abstr
actQueuedSynchronizer.java:2078)
    at
java.util.concurrent.ScheduledThreadPoolExecutor$DelayedWorkQueue.take(ScheduledThread
PoolExecutor.java:1093)
```

```
    at
java.util.concurrent.ScheduledThreadPoolExecutor$DelayedWorkQueue.take(ScheduledThread
PoolExecutor.java:809)
    at java.util.concurrent.ThreadPoolExecutor.getTask(ThreadPoolExecutor.java:1074)
    at java.util.concurrent.ThreadPoolExecutor.runWorker(ThreadPoolExecutor.java:1134)
    at java.util.concurrent.ThreadPoolExecutor$Worker.run(ThreadPoolExecutor.java:624)
    at java.lang.Thread.run(Thread.java:748)

    Locked ownable synchronizers:
    - None

"/127.0.0.1:38822 to /127.0.0.1:40435 workers Thread 3" - Thread t@13
    java.lang.Thread.State: RUNNABLE
    at sun.nio.ch.EPollArrayWrapper.epollWait(Native Method)
    at sun.nio.ch.EPollArrayWrapper.poll(EPollArrayWrapper.java:269)
    at sun.nio.ch.EPollSelectorImpl.doSelect(EPollSelectorImpl.java:93)
    at sun.nio.ch.SelectorImpl.lockAndDoSelect(SelectorImpl.java:86)
    - locked <64eae053> (a sun.nio.ch.Util$3)
    - locked <196e766b> (a java.util.Collections$UnmodifiableSet)
    - locked <2dda24fc> (a sun.nio.ch.EPollSelectorImpl)
    at sun.nio.ch.SelectorImpl.select(SelectorImpl.java:97)
    at sun.nio.ch.SelectorImpl.select(SelectorImpl.java:101)
    at
org.gradle.internal.remote.internal.inet.SocketConnection$SocketInputStream.read(Socke
tConnection.java:185)
    at com.esotericsoftware.kryo.io.Input.fill(Input.java:146)
    at com.esotericsoftware.kryo.io.Input.require(Input.java:178)
    at com.esotericsoftware.kryo.io.Input.readByte(Input.java:295)
    at
org.gradle.internal.serialize.kryo.KryoBackedDecoder.readByte(KryoBackedDecoder.java:8
2)
    at
org.gradle.internal.remote.internal.hub.InterHubMessageSerializer$MessageReader.read(I
nterHubMessageSerializer.java:64)
    at
org.gradle.internal.remote.internal.hub.InterHubMessageSerializer$MessageReader.read(I
nterHubMessageSerializer.java:52)
    at
org.gradle.internal.remote.internal.inet.SocketConnection.receive(SocketConnection.jav
a:81)
    at
org.gradle.internal.remote.internal.hub.MessageHub$ConnectionReceive.run(MessageHub.ja
va:269)
    at
org.gradle.internal.concurrent.ExecutorPolicy$CatchAndRecordFailures.onExecute(Executo
rPolicy.java:64)
    at
org.gradle.internal.concurrent.ManagedExecutorImpl$1.run(ManagedExecutorImpl.java:48)
    at java.util.concurrent.ThreadPoolExecutor.runWorker(ThreadPoolExecutor.java:1149)
    at java.util.concurrent.ThreadPoolExecutor$Worker.run(ThreadPoolExecutor.java:624)
    at
```

```
org.gradle.internal.concurrent.ThreadFactoryImpl$ManagedThreadRunnable.run(ThreadFacto
ryImpl.java:56)
    at java.lang.Thread.run(Thread.java:748)

   Locked ownable synchronizers:
    - Locked <63a65a25> (a java.util.concurrent.ThreadPoolExecutor$Worker)

"/127.0.0.1:38822 to /127.0.0.1:40435 workers Thread 2" - Thread t@12
   java.lang.Thread.State: WAITING
    at sun.misc.Unsafe.park(Native Method)
    - parking to wait for <5443ea25> (a
java.util.concurrent.locks.AbstractQueuedSynchronizer$ConditionObject)
    at java.util.concurrent.locks.LockSupport.park(LockSupport.java:175)
    at
java.util.concurrent.locks.AbstractQueuedSynchronizer$ConditionObject.await(AbstractQu
euedSynchronizer.java:2039)
    at
org.gradle.internal.remote.internal.hub.queue.EndPointQueue.take(EndPointQueue.java:49
)
    at
org.gradle.internal.remote.internal.hub.MessageHub$ConnectionDispatch.run(MessageHub.j
ava:321)
    at
org.gradle.internal.concurrent.ExecutorPolicy$CatchAndRecordFailures.onExecute(Executo
rPolicy.java:64)
    at
org.gradle.internal.concurrent.ManagedExecutorImpl$1.run(ManagedExecutorImpl.java:48)
    at java.util.concurrent.ThreadPoolExecutor.runWorker(ThreadPoolExecutor.java:1149)
    at java.util.concurrent.ThreadPoolExecutor$Worker.run(ThreadPoolExecutor.java:624)
    at
org.gradle.internal.concurrent.ThreadFactoryImpl$ManagedThreadRunnable.run(ThreadFacto
ryImpl.java:56)
    at java.lang.Thread.run(Thread.java:748)

   Locked ownable synchronizers:
    - Locked <25d250c6> (a java.util.concurrent.ThreadPoolExecutor$Worker)

"Test worker" - Thread t@11
   java.lang.Thread.State: RUNNABLE
    at sun.management.ThreadImpl.dumpThreads0(Native Method)
    at sun.management.ThreadImpl.dumpAllThreads(ThreadImpl.java:454)
    at
org.springframework.boot.actuate.management.ThreadDumpEndpoint.getFormattedThreadDump(
ThreadDumpEndpoint.java:51)
    at
org.springframework.boot.actuate.management.ThreadDumpEndpoint.textThreadDump(ThreadDu
mpEndpoint.java:47)
    at sun.reflect.NativeMethodAccessorImpl.invoke0(Native Method)
    at sun.reflect.NativeMethodAccessorImpl.invoke(NativeMethodAccessorImpl.java:62)
    at
sun.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.java:43)
```

```
    at java.lang.reflect.Method.invoke(Method.java:498)
    at org.springframework.util.ReflectionUtils.invokeMethod(ReflectionUtils.java:282)
    at
org.springframework.boot.actuate.endpoint.invoke.reflect.ReflectiveOperationInvoker.in
voke(ReflectiveOperationInvoker.java:77)
    at
org.springframework.boot.actuate.endpoint.annotation.AbstractDiscoveredOperation.invok
e(AbstractDiscoveredOperation.java:60)
    at
org.springframework.boot.actuate.endpoint.web.servlet.AbstractWebMvcEndpointHandlerMap
ping$ServletWebOperationAdapter.handle(AbstractWebMvcEndpointHandlerMapping.java:305)
    at
org.springframework.boot.actuate.endpoint.web.servlet.AbstractWebMvcEndpointHandlerMap
ping$OperationHandler.handle(AbstractWebMvcEndpointHandlerMapping.java:388)
    at sun.reflect.GeneratedMethodAccessor409.invoke(Unknown Source)
    at
sun.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.java:43)
    at java.lang.reflect.Method.invoke(Method.java:498)
    at
org.springframework.web.method.support.InvocableHandlerMethod.doInvoke(InvocableHandle
rMethod.java:190)
    at
org.springframework.web.method.support.InvocableHandlerMethod.invokeForRequest(Invocab
leHandlerMethod.java:138)
    at
org.springframework.web.servlet.mvc.method.annotation.ServletInvocableHandlerMethod.in
vokeAndHandle(ServletInvocableHandlerMethod.java:105)
    at
org.springframework.web.servlet.mvc.method.annotation.RequestMappingHandlerAdapter.inv
okeHandlerMethod(RequestMappingHandlerAdapter.java:879)
    at
org.springframework.web.servlet.mvc.method.annotation.RequestMappingHandlerAdapter.han
dleInternal(RequestMappingHandlerAdapter.java:793)
    at
org.springframework.web.servlet.mvc.method.AbstractHandlerMethodAdapter.handle(Abstrac
tHandlerMethodAdapter.java:87)
    at
org.springframework.web.servlet.DispatcherServlet.doDispatch(DispatcherServlet.java:10
40)
    at
org.springframework.web.servlet.DispatcherServlet.doService(DispatcherServlet.java:943
)
    at
org.springframework.web.servlet.FrameworkServlet.processRequest(FrameworkServlet.java:
1006)
    at
org.springframework.web.servlet.FrameworkServlet.doGet(FrameworkServlet.java:898)
    at javax.servlet.http.HttpServlet.service(HttpServlet.java:645)
    at
org.springframework.web.servlet.FrameworkServlet.service(FrameworkServlet.java:883)
    at
```

```
org.springframework.test.web.servlet.TestDispatcherServlet.service(TestDispatcherServl
et.java:72)
    at javax.servlet.http.HttpServlet.service(HttpServlet.java:750)
    at
org.springframework.mock.web.MockFilterChain$ServletFilterProxy.doFilter(MockFilterCha
in.java:167)
    at org.springframework.mock.web.MockFilterChain.doFilter(MockFilterChain.java:134)
    at org.springframework.test.web.servlet.MockMvc.perform(MockMvc.java:183)
    at
org.springframework.boot.actuate.autoconfigure.endpoint.web.documentation.ThreadDumpEn
dpointDocumentationTests.textThreadDump(ThreadDumpEndpointDocumentationTests.java:186)
    at sun.reflect.NativeMethodAccessorImpl.invoke0(Native Method)
    at sun.reflect.NativeMethodAccessorImpl.invoke(NativeMethodAccessorImpl.java:62)
    at
sun.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.java:43)
    at java.lang.reflect.Method.invoke(Method.java:498)
    at
org.junit.platform.commons.util.ReflectionUtils.invokeMethod(ReflectionUtils.java:686)
    at
org.junit.jupiter.engine.execution.MethodInvocation.proceed(MethodInvocation.java:60)
    at
org.junit.jupiter.engine.execution.InvocationInterceptorChain$ValidatingInvocation.pro
ceed(InvocationInterceptorChain.java:131)
    at
org.junit.jupiter.engine.extension.TimeoutExtension.intercept(TimeoutExtension.java:14
9)
    at
org.junit.jupiter.engine.extension.TimeoutExtension.interceptTestableMethod(TimeoutExt
ension.java:140)
    at
org.junit.jupiter.engine.extension.TimeoutExtension.interceptTestMethod(TimeoutExtensi
on.java:84)
    at
org.junit.jupiter.engine.descriptor.TestMethodTestDescriptor$$Lambda$120/2042483880.ap
ply(Unknown Source)
    at
org.junit.jupiter.engine.execution.ExecutableInvoker$ReflectiveInterceptorCall.lambda$
ofVoidMethod$0(ExecutableInvoker.java:115)
    at
org.junit.jupiter.engine.execution.ExecutableInvoker$ReflectiveInterceptorCall$$Lambda
$121/982540615.apply(Unknown Source)
    at
org.junit.jupiter.engine.execution.ExecutableInvoker.lambda$invoke$0(ExecutableInvoker
.java:105)
    at
org.junit.jupiter.engine.execution.ExecutableInvoker$$Lambda$234/935828768.apply(Unkno
wn Source)
    at
org.junit.jupiter.engine.execution.InvocationInterceptorChain$InterceptedInvocation.pr
oceed(InvocationInterceptorChain.java:106)
    at
```

```
org.junit.jupiter.engine.execution.InvocationInterceptorChain.proceed(InvocationInterc
eptorChain.java:64)
    at
org.junit.jupiter.engine.execution.InvocationInterceptorChain.chainAndInvoke(Invocatio
nInterceptorChain.java:45)
    at
org.junit.jupiter.engine.execution.InvocationInterceptorChain.invoke(InvocationInterce
ptorChain.java:37)
    at
org.junit.jupiter.engine.execution.ExecutableInvoker.invoke(ExecutableInvoker.java:104
)
    at
org.junit.jupiter.engine.execution.ExecutableInvoker.invoke(ExecutableInvoker.java:98)
    at
org.junit.jupiter.engine.descriptor.TestMethodTestDescriptor.lambda$invokeTestMethod$6
(TestMethodTestDescriptor.java:212)
    at
org.junit.jupiter.engine.descriptor.TestMethodTestDescriptor$$Lambda$276/542987463.exe
cute(Unknown Source)
    at
org.junit.platform.engine.support.hierarchical.ThrowableCollector.execute(ThrowableCol
lector.java:73)
    at
org.junit.jupiter.engine.descriptor.TestMethodTestDescriptor.invokeTestMethod(TestMeth
odTestDescriptor.java:208)
    at
org.junit.jupiter.engine.descriptor.TestMethodTestDescriptor.execute(TestMethodTestDes
criptor.java:137)
    at
org.junit.jupiter.engine.descriptor.TestMethodTestDescriptor.execute(TestMethodTestDes
criptor.java:71)
    at
org.junit.platform.engine.support.hierarchical.NodeTestTask.lambda$executeRecursively$
5(NodeTestTask.java:135)
    at
org.junit.platform.engine.support.hierarchical.NodeTestTask$$Lambda$178/450408318.exec
ute(Unknown Source)
    at
org.junit.platform.engine.support.hierarchical.ThrowableCollector.execute(ThrowableCol
lector.java:73)
    at
org.junit.platform.engine.support.hierarchical.NodeTestTask.lambda$executeRecursively$
7(NodeTestTask.java:125)
    at
org.junit.platform.engine.support.hierarchical.NodeTestTask$$Lambda$177/510358164.invo
ke(Unknown Source)
    at org.junit.platform.engine.support.hierarchical.Node.around(Node.java:135)
    at
org.junit.platform.engine.support.hierarchical.NodeTestTask.lambda$executeRecursively$
8(NodeTestTask.java:123)
    at
```

```
org.junit.platform.engine.support.hierarchical.NodeTestTask$$Lambda$176/688026161.exec
ute(Unknown Source)
    at
org.junit.platform.engine.support.hierarchical.ThrowableCollector.execute(ThrowableCol
lector.java:73)
    at
org.junit.platform.engine.support.hierarchical.NodeTestTask.executeRecursively(NodeTes
tTask.java:122)
    at
org.junit.platform.engine.support.hierarchical.NodeTestTask.execute(NodeTestTask.java:
80)
    at
org.junit.platform.engine.support.hierarchical.SameThreadHierarchicalTestExecutorServi
ce$$Lambda$182/1057705622.accept(Unknown Source)
    at java.util.ArrayList.forEach(ArrayList.java:1257)
    at
org.junit.platform.engine.support.hierarchical.SameThreadHierarchicalTestExecutorServi
ce.invokeAll(SameThreadHierarchicalTestExecutorService.java:38)
    at
org.junit.platform.engine.support.hierarchical.NodeTestTask.lambda$executeRecursively$
5(NodeTestTask.java:139)
    at
org.junit.platform.engine.support.hierarchical.NodeTestTask$$Lambda$178/450408318.exec
ute(Unknown Source)
    at
org.junit.platform.engine.support.hierarchical.ThrowableCollector.execute(ThrowableCol
lector.java:73)
    at
org.junit.platform.engine.support.hierarchical.NodeTestTask.lambda$executeRecursively$
7(NodeTestTask.java:125)
    at
org.junit.platform.engine.support.hierarchical.NodeTestTask$$Lambda$177/510358164.invo
ke(Unknown Source)
    at org.junit.platform.engine.support.hierarchical.Node.around(Node.java:135)
    at
org.junit.platform.engine.support.hierarchical.NodeTestTask.lambda$executeRecursively$
8(NodeTestTask.java:123)
    at
org.junit.platform.engine.support.hierarchical.NodeTestTask$$Lambda$176/688026161.exec
ute(Unknown Source)
    at
org.junit.platform.engine.support.hierarchical.ThrowableCollector.execute(ThrowableCol
lector.java:73)
    at
org.junit.platform.engine.support.hierarchical.NodeTestTask.executeRecursively(NodeTes
tTask.java:122)
    at
org.junit.platform.engine.support.hierarchical.NodeTestTask.execute(NodeTestTask.java:
80)
    at
org.junit.platform.engine.support.hierarchical.SameThreadHierarchicalTestExecutorServi
```

```
ce$$Lambda$182/1057705622.accept(Unknown Source)
    at java.util.ArrayList.forEach(ArrayList.java:1257)
    at
org.junit.platform.engine.support.hierarchical.SameThreadHierarchicalTestExecutorServi
ce.invokeAll(SameThreadHierarchicalTestExecutorService.java:38)
    at
org.junit.platform.engine.support.hierarchical.NodeTestTask.lambda$executeRecursively$
5(NodeTestTask.java:139)
    at
org.junit.platform.engine.support.hierarchical.NodeTestTask$$Lambda$178/450408318.exec
ute(Unknown Source)
    at
org.junit.platform.engine.support.hierarchical.ThrowableCollector.execute(ThrowableCol
lector.java:73)
    at
org.junit.platform.engine.support.hierarchical.NodeTestTask.lambda$executeRecursively$
7(NodeTestTask.java:125)
    at
org.junit.platform.engine.support.hierarchical.NodeTestTask$$Lambda$177/510358164.invo
ke(Unknown Source)
    at org.junit.platform.engine.support.hierarchical.Node.around(Node.java:135)
    at
org.junit.platform.engine.support.hierarchical.NodeTestTask.lambda$executeRecursively$
8(NodeTestTask.java:123)
    at
org.junit.platform.engine.support.hierarchical.NodeTestTask$$Lambda$176/688026161.exec
ute(Unknown Source)
    at
org.junit.platform.engine.support.hierarchical.ThrowableCollector.execute(ThrowableCol
lector.java:73)
    at
org.junit.platform.engine.support.hierarchical.NodeTestTask.executeRecursively(NodeTes
tTask.java:122)
    at
org.junit.platform.engine.support.hierarchical.NodeTestTask.execute(NodeTestTask.java:
80)
    at
org.junit.platform.engine.support.hierarchical.SameThreadHierarchicalTestExecutorServi
ce.submit(SameThreadHierarchicalTestExecutorService.java:32)
    at
org.junit.platform.engine.support.hierarchical.HierarchicalTestExecutor.execute(Hierar
chicalTestExecutor.java:57)
    at
org.junit.platform.engine.support.hierarchical.HierarchicalTestEngine.execute(Hierarch
icalTestEngine.java:51)
    at
org.junit.platform.launcher.core.DefaultLauncher.execute(DefaultLauncher.java:248)
    at
org.junit.platform.launcher.core.DefaultLauncher.lambda$execute$5(DefaultLauncher.java
:211)
    at
```

```
org.junit.platform.launcher.core.DefaultLauncher$$Lambda$145/1292072138.accept(Unknown
Source)
    at
org.junit.platform.launcher.core.DefaultLauncher.withInterceptedStreams(DefaultLaunche
r.java:226)
    at
org.junit.platform.launcher.core.DefaultLauncher.execute(DefaultLauncher.java:199)
    at
org.junit.platform.launcher.core.DefaultLauncher.execute(DefaultLauncher.java:132)
    at
org.gradle.api.internal.tasks.testing.junitplatform.JUnitPlatformTestClassProcessor$Co
llectAllTestClassesExecutor.processAllTestClasses(JUnitPlatformTestClassProcessor.java
:99)
    at
org.gradle.api.internal.tasks.testing.junitplatform.JUnitPlatformTestClassProcessor$Co
llectAllTestClassesExecutor.access$000(JUnitPlatformTestClassProcessor.java:79)
    at
org.gradle.api.internal.tasks.testing.junitplatform.JUnitPlatformTestClassProcessor.st
op(JUnitPlatformTestClassProcessor.java:75)
    at
org.gradle.api.internal.tasks.testing.SuiteTestClassProcessor.stop(SuiteTestClassProce
ssor.java:61)
    at sun.reflect.NativeMethodAccessorImpl.invoke0(Native Method)
    at sun.reflect.NativeMethodAccessorImpl.invoke(NativeMethodAccessorImpl.java:62)
    at
sun.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.java:43)
    at java.lang.reflect.Method.invoke(Method.java:498)
    at
org.gradle.internal.dispatch.ReflectionDispatch.dispatch(ReflectionDispatch.java:36)
    at
org.gradle.internal.dispatch.ReflectionDispatch.dispatch(ReflectionDispatch.java:24)
    at
org.gradle.internal.dispatch.ContextClassLoaderDispatch.dispatch(ContextClassLoaderDis
patch.java:33)
    at
org.gradle.internal.dispatch.ProxyDispatchAdapter$DispatchingInvocationHandler.invoke(
ProxyDispatchAdapter.java:94)
    at com.sun.proxy.$Proxy2.stop(Unknown Source)
    at
org.gradle.api.internal.tasks.testing.worker.TestWorker.stop(TestWorker.java:132)
    at sun.reflect.NativeMethodAccessorImpl.invoke0(Native Method)
    at sun.reflect.NativeMethodAccessorImpl.invoke(NativeMethodAccessorImpl.java:62)
    at
sun.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.java:43)
    at java.lang.reflect.Method.invoke(Method.java:498)
    at
org.gradle.internal.dispatch.ReflectionDispatch.dispatch(ReflectionDispatch.java:36)
    at
org.gradle.internal.dispatch.ReflectionDispatch.dispatch(ReflectionDispatch.java:24)
    at
org.gradle.internal.remote.internal.hub.MessageHubBackedObjectConnection$DispatchWrapp
```

```
er.dispatch(MessageHubBackedObjectConnection.java:182)
    at
org.gradle.internal.remote.internal.hub.MessageHubBackedObjectConnection$DispatchWrapp
er.dispatch(MessageHubBackedObjectConnection.java:164)
    at
org.gradle.internal.remote.internal.hub.MessageHub$Handler.run(MessageHub.java:413)
    at
org.gradle.internal.concurrent.ExecutorPolicy$CatchAndRecordFailures.onExecute(Executo
rPolicy.java:64)
    at
org.gradle.internal.concurrent.ManagedExecutorImpl$1.run(ManagedExecutorImpl.java:48)
    at java.util.concurrent.ThreadPoolExecutor.runWorker(ThreadPoolExecutor.java:1149)
    at java.util.concurrent.ThreadPoolExecutor$Worker.run(ThreadPoolExecutor.java:624)
    at
org.gradle.internal.concurrent.ThreadFactoryImpl$ManagedThreadRunnable.run(ThreadFacto
ryImpl.java:56)
    at java.lang.Thread.run(Thread.java:748)

   Locked ownable synchronizers:
    - Locked <402e37bc> (a java.util.concurrent.ThreadPoolExecutor$Worker)

"Signal Dispatcher" - Thread t@4
   java.lang.Thread.State: RUNNABLE

   Locked ownable synchronizers:
    - None

"Finalizer" - Thread t@3
   java.lang.Thread.State: WAITING
    at java.lang.Object.wait(Native Method)
    - waiting on <17485330> (a java.lang.ref.ReferenceQueue$Lock)
    at java.lang.ref.ReferenceQueue.remove(ReferenceQueue.java:144)
    at java.lang.ref.ReferenceQueue.remove(ReferenceQueue.java:165)
    at java.lang.ref.Finalizer$FinalizerThread.run(Finalizer.java:216)

   Locked ownable synchronizers:
    - None

"Reference Handler" - Thread t@2
   java.lang.Thread.State: WAITING
    at java.lang.Object.wait(Native Method)
    - waiting on <25bb34e5> (a java.lang.ref.Reference$Lock)
    at java.lang.Object.wait(Object.java:502)
    at java.lang.ref.Reference.tryHandlePending(Reference.java:191)
    at java.lang.ref.Reference$ReferenceHandler.run(Reference.java:153)

   Locked ownable synchronizers:
    - None
```